



42623-0044_seq listing
SEQUENCE LISTING

<110> Romeo, Tony
Wang, Xin
Desplas, Rebecca L

<120> E.Coli Mutants

<130> 42623-0044

<140> 10/826,967
<141> 2004-04-16

<150> US 60/464,062
<151> 2003-04-17

<160> 141

<170> PatentIn version 3.2

<210> 1
<211> 33
<212> DNA
<213> Artificial

<220>
<223> primer

<220>
<221> misc_feature
<222> (21)..(30)
<223> n is a, c, g, or t

<400> 1
ggccacgcgt cgactagtac nnnnnnnnnn gat

33

<210> 2
<211> 18
<212> DNA
<213> Artificial

<220>
<223> primer

<400> 2
caggctctcc ccgtggag

18

<210> 3
<211> 16
<212> DNA
<213> Artificial

<220>
<223> primer

<400> 3
aaagtgcggg tgatgc

16

<210> 4

42623-0044_seq listing

<211> 20
<212> DNA
<213> Artificial

<220>
<223> primer

<400> 4
ggccacgcgt cgactagtac

20

<210> 5
<211> 17
<212> DNA
<213> Artificial

<220>
<223> primer

<400> 5
ctgcctccca gagcctg

17

<210> 6
<211> 23
<212> DNA
<213> Artificial

<220>
<223> primer

<400> 6
ctgacggggt ggtgcgttaac ggc

23

<210> 7
<211> 22
<212> DNA
<213> Artificial

<220>
<223> primer

<400> 7
cactcgtag cgtttacagc cg

22

<210> 8
<211> 23
<212> DNA
<213> Artificial

<220>
<223> primer

<400> 8
gattcctcta tttattcgcc cgc

23

<210> 9
<211> 23
<212> DNA
<213> Artificial

42623-0044_seq listing

<220>
<223> primer'

<400> 9
ctaatcaacg aggaaaaagg gac

23

<210> 10
<211> 24
<212> DNA
<213> Artificial

<220>
<223> primer

<400> 10
aatcggctga atcccacaac ttac

24

<210> 11
<211> 24
<212> DNA
<213> Artificial

<220>
<223> primer

<400> 11
cttctgacac atgcagtgga gttg

24

<210> 12
<211> 26
<212> DNA
<213> Artificial

<220>
<223> primer

<400> 12
gcgattgtac gctgaaatga aagcac

26

<210> 13
<211> 24
<212> DNA
<213> Artificial

<220>
<223> primer

<400> 13
atgccactgc atactgatta accc

24

<210> 14
<211> 28
<212> DNA
<213> Artificial

<220>
<223> primer

42623-0044_seq listing

<400> 14		
cggtgcaaat gccagataag acactaac		28
<210> 15		
<211> 17		
<212> DNA		
<213> Artificial		
<220>		
<223> primer		
<400> 15		
caggaaacag ctatgac		17
<210> 16		
<211> 25		
<212> DNA		
<213> Artificial		
<220>		
<223> primer		
<400> 16		
aaacgtgaac ttagtgcagg atcgc		25
<210> 17		
<211> 25		
<212> DNA		
<213> Artificial		
<220>		
<223> primer		
<400> 17		
gatcatcgct ggcttgctga ttggc		25
<210> 18		
<211> 27		
<212> DNA		
<213> Artificial		
<220>		
<223> primer		
<400> 18		
gatattgtga actatcgcaa agaatcc		27
<210> 19		
<211> 26		
<212> DNA		
<213> Artificial		
<220>		
<223> primer		
<400> 19		
cgtatgcacaa tgcaatcttc gttgcc		26

42623-0044_seq listing

<210> 20
<211> 220
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<400> 20
caggaaacag ctatgaccat gattacgcca agcttggta cgagctcgga tccactagta 60
acggccgcca gtgtgctgga attcggttta agccgaattc tgcatatc catcacactg 120
gcggccgctc gagcatgcat ctagagggcc caattcgccc tatagtgagt cgtattacaa 180
ttcactggcc gtcgtttac aacgtcgtga ctggcaaaac 220

<210> 21
<211> 220
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<400> 21
gtcctttgtc gatactggta ctaatgcgt tcgaaccatg gctcgagcct aggtgatcat 60
tgccggcggt cacacgacct taagccaat tcggcttaag acgtctatag gtatgtgac 120
cgccggcgag ctcgtacgta gatctccgg gttaagcggg atatcaactca gcataatgtt 180
aagtgaccgg cagcaaaatg ttgcagcact gaccctttg 220

<210> 22
<211> 309
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<400> 22
aaaaacgggtt accggatccg ggatcatatg acaagatgt tatccacctt aacttaatga 60
tttttaccaa aatcattagg ggattcatca gggtcaggta tggatttaag ttccatcctt 120
gataccctca cgcgcgcga aaaagcgacg ctaacccca ttcaaatca gcaatcg 180
tttaccgcta aacttagcgc ctacggta cgaaaagcg cgctgacgac tttccagacc 240
gccaataactg cattgtctaa agccgatctt tttccgcca ccagcaccac cagcagcacc 300
accgcgttc 309

<210> 23
<211> 326
<212> DNA

42623-0044_seq listing

<213> Artificial

<220>

<223> partial gene with transposon insert

<220>

<221> misc_feature

<222> (293)..(293)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (295)..(301)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (324)..(326)

<223> n is a, c, g, or t

<400> 23

aaaaacgggtt accggatccg ggatcatatg acaagatgtg tatccacctt aacttaatga	60
tttttaccaa aatcattagg ggattcatca gagttaagtc ccataccaac catggacgca	120
atgcagaata ttatgcctgg gtacaaaatc atctcaaaga gcatcccgca gatcgcttg	180
ttgggtttaa taagatgcct ggcctggatg tttatttgc cgctgatgtt tgttacgccc	240
agaaagttgc gcaagaaaaa ggtttttat atcgtaaac atcacgatat ccncnnnnnn	300
ngtactagtc gacgcggggc caannn	326

<210> 24

<211> 164

<212> DNA

<213> Artificial

<220>

<223> partial gene with transposon insert

<220>

<221> misc_feature

<222> (1)..(1)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (135)..(136)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (138)..(139)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (141)..(141)

<223> n is a, c, g, or t

42623-0044_seq listing

<220>
<221> misc_feature
<222> (143)..(143)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (145)..(145)
<223> n is a, c, g, or t

<400> 24
naaaaacccg ccggacatcc cgatccggg atcatatgac aagatgtgta tccacctaa 60
cttaatgatt ttacaaaaa tcattagggg attcatcagt gttcaacctg ctgcgtcgta 120
gccccgatat atccnnncnnc ncngnactag tcgacgcgtg gcca 164

<210> 25
<211> 296
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (6)..(6)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (92)..(92)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (134)..(135)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (139)..(139)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (149)..(149)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (152)..(152)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (155)..(155)
<223> n is a, c, g, or t

42623-0044_seq listing

<220>
<221> misc_feature
<222> (157)..(157)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (163)..(163)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (170)..(171)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (226)..(226)
<223> n is a, c, g, or t

<400> 25
aacgggnccga tccgggatca tatgacaaga tgtgttatcca ccttaactta atgattttta 60
ccaaaatcat taggggattc atcagagatc ancctgaatt ccagtgtatcc gcttcctact 120
gttacgcccatt canngccng caatgcggnt ancttnaca aanaaggtn ngtgactgtt 180
ttcccacagtc atggtaatgc tcatgacatg agcgtctact ttgtgnaccc ggggataata 240
actggcaggt ctacacccag gatagcagtg atccaaacag cattgcgaag acagcg 296

<210> 26
<211> 317
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<400> 26
aaacggttac cggatccggg atcatatgac aagatgtgtta tccaccttaa cttaatgatt 60
tttacaaaaa tcatttagggg attcatcagt gcttacacct ggcagccgat ctatcaaaca 120
tgcggcggtaaatggccgt ggagctatta acgggttgtca cgcatccctt gaacccttcg 180
caacgcctgc cgccggatcg ctatttact gaaatcaccg tcagccatcg gatggaggtt 240
gtgaaagagc agattgattt gctggcgcaa aaagccgact tctttataga gcacggcctg 300
ctggcatcggtcaatat 317

<210> 27
<211> 371
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

42623-0044_seq listing

<220>
<221> misc_feature
<222> (350)..(350)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (352)..(352)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (354)..(358)
<223> n is a, c, g, or t

<400> 27
aaacggttac cggatccggg atcatatgac aagatgtgt tccaccttaa cttatgatt 60
tttaccaaaa tcattagggg attcatcagc ttcaagcgcc agtttcaaca tgcggttgat 120
gacgcgctgt tcggtatggg taaactcgcg accttccact ttggtcggga agcgtccatc 180
gccgc当地点 aac aggttatcca cggcgataaa caccagactc ggtgagaaca ccaccagccc 240
agtgc当地点 cgc agcggtttca gatggataag gttcaggttg gtcggcaccg gcaggttgcg 300
ggcaaattca tggtagggct gaatgcggat ggccccgacg gttatatccn gncnnnnngt 360
actatcgac g 371

<210> 28
<211> 374
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<400> 28
aaacggttac cggatccggg atcatatgac aagatgtgt tccaccttaa cttatgatt 60
tttaccaaaa tcattagggg attcatcagt atccagcccc aacgtatggg aagtggagat 120
catcagcccc cgc当地点 ctt tgc当地点 ccag cgtctgc当地点 acacgctctt tcatctcg 180
cgctgcttta ttagtaaagg tcaccgc当地点 aatgtgc当地点 gc当地点 gataaac cgcaaccgc当地点 240
gatcagatgg gcgatttat tggtagggataac acgagttta cggaaacccg cgccc当地点 ccag 300
caccaggcag gggccggtaa cgaattcgac agcttgttgc当地点 tggccggggt ttagacgcat 360
aggtgtatttgc当地点 ctca 374

<210> 29
<211> 311
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

42623-0044_seq listing

<220>
<221> misc_feature
<222> (4)..(4)
<223> n is a, c, g, or t

<400> 29
cggnccggat ccgggatcat atgacaagat gtgttatccac cttaacttaa tgattttac 60
caaaatcatt aggggattca tcagtggtac gcatctacat aaattttgtc gatcacccgt 120
gacataataa aaaaggtcaa aaacagtgcc agccccagca atacctggtt aggtggcg 180
cgagggtgt tcccagcg 240
ttacgcata aacaaaaac aatgatgatg cggtgaaac 300
tggtcatcat cagtaaaatt gccgaaataa acgtcaacga ggtgatgaac accagcgtct
gcaccgggag c 311

<210> 30
<211> 398
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (1)..(2)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (4)..(5)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (10)..(10)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (15)..(16)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (23)..(23)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (153)..(153)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (165)..(165)
<223> n is a, c, g, or t

42623-0044_seq listing

```
<220>
<221> misc_feature
<222> (179)..(179)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (189)..(189)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (198)..(198)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (207)..(207)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (232)..(232)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (243)..(243)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (248)..(248)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (256)..(256)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (258)..(258)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (268)..(269)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (279)..(279)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (287)..(287)
<223> n is a, c, g, or t

<220>
<221> misc_feature
```

42623-0044_seq listing

```
<222> (289)..(289)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (292)..(292)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (304)..(304)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (306)..(306)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (310)..(310)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (310)..(313)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (317)..(317)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (319)..(319)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (325)..(326)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (328)..(328)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (332)..(332)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (337)..(337)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (341)..(342)
<223> n is a, c, g, or t
```

42623-0044_seq listing

```
<220>
<221> misc_feature
<222> (344)..(345)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (347)..(347)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (350)..(350)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (355)..(355)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (357)..(357)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (361)..(362)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (365)..(365)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (367)..(367)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (370)..(371)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (375)..(375)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (379)..(381)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (385)..(386)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (388)..(389)
```

42623-0044_seq listing

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (391)..(391)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (396)..(396)

<223> n is a, c, g, or t

<400> 30

nncnnaacan acggnnccgg ccnggatcat atgacaagat gtgtatccac cttaactaa 60

tgattttac caaaatcatt aggggattca tcagcggcga gctggcgcaaaaatcatcg 120

acgagatgtt cctgttcgag aatctggtgg atntcgccaa tcgcngtact agtcgacng 180

tggccaaant ggattccnaa tcgctgntga tcgcgctgaa aggagccgag cngtcactgt 240

gcnagaantt cttgcncnat atgtgcnnnc gtgccgcnna tatcccncnc cnaccgtacc 300

cctngnacgn nnnaccngna ccccnntncg gncaagnatg nnannancn gatanancag 360

nncantnctn ngatncacnn natannanng ncgccnac 398

<210> 31

<211> 312

<212> DNA

<213> Artificial

<220>

<223> partial gene with transposon insert

<220>

<221> misc_feature

<222> (196)..(196)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (202)..(202)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (207)..(207)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (214)..(214)

<223> n is a, c, g, or t

<400> 31

aaacggttac cgatccggg atcatatgac aagatgtgta tccaccttaa cttaatgatt 60

tttaccaaaa tcatttagggg attcatcagg gtcaggcatg ctctcgatt ctggaagcgt 120

taaaaaataa tcggatataca ctatgagtt tgccgaccatt tctgttatcg gactgggtta 180

42623-0044_seq listing

tatcgggctg ccaacngcta cncgacncgc gccncggcaa aaacaggtaa ttggtgtcga 240
tatcaaccaa catgcggttg ataccatcaa tcgtggccaa atccatatcc ccccccccg 300
tactagtcga cg 312

<210> 32
<211> 250
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (4)..(4)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (217)..(219)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (245)..(245)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (247)..(250)
<223> n is a, c, g, or t

<400> 32
cggncggat ccgggatcat atgacaagat gtgtatccac cttaacttaa tgattttac 60
caaaatcatt aggggattca tcagtgccgc gcacggcaa tccaatgca aaaatcgac 120
taatctaaa agtataacccg atgcgtagcc ataccgttgc tgcagaaggg ggctccgccc 180
ctgtcgcgca ggatcatgac agcttcgaat atccccnnnc cccctacta gtcgacgccc 240
tgaanannnn 250

<210> 33
<211> 316
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (178)..(178)
<223> n is a, c, g, or t

42623-0044_seq listing

<220>
<221> misc_feature
<222> (185)..(185)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (188)..(188)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (195)..(195)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (210)..(210)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (213)..(213)
<223> n is a, c, g, or t

<400> 33						
aacgtaccgg atccgggatc atatgacaag atgtgtatcc accttaactt aatgattttt						60
accaaaaatca ttaggggatt catcaggcg cagccgctgc gtgagtttat gctgcgtcag						120
acccgtgagg cagatttagg gttgttgcc agactggcga atatcgccc gttgcgtnc						180
actcnacncg tgccnatgcg cattttgctn ccngcctacg tgaccagcga gttgaaaacc						240
gcatttcaga tacggcttca cagatttca tccctttttt gattatcgac ctgggtatag						300
ccagcgtgtt gatggc						316

<210> 34
<211> 276
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (10)..(11)
<223> n is a, c, g, or t

<400> 34						
atgaaaacgn nccggatccg ggatcatatg acaagatgtg tatccacctt aacttaatga						60
tttttaccaa aatcattagg ggattcatca gtactcaact tccagcggat taatgcctt						120
ccaggcgtcg ctatagcctt caagcgccag tttcaacatg cggttcatga cgcgctgttc						180
ggtatggta aactcgcgac cttccacttt ggtcggaaag cgtccatcgc cgccaaacag						240
gttatccacg gcgataaaaca ccagactcgg tgagaa						276

42623-0044_seq listing

<210> 35
<211> 332
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<400> 35
cgtaccggat ccgggatcat atgacaagat gtgtatccac cttaacttaa tgattttac 60
caaaatcatt aggggattca tcagggcgca gcccgcgtcg tgagttatg ctgcgtcaga 120
cccggtgaggc agattttaggg ttgttgcga gactggcgaa taccggcccg ttgcagggac 180
ctgaagccgt gccgatgcgc atttgctcc cggcctacgt gaccagcgag ttgaaaaccg 240
catttcagat aggcttcacg attttcatcc ctttttgat tatcgacctg gtgatagcca 300
gcgtgttgat ggcattgggg atgatgatgg tt 332

<210> 36
<211> 215
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (3)..(5)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (11)..(11)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (186)..(194)
<223> n is a, c, g, or t

<400> 36
ngnnnatacg nccggatccg ggatcatatg acaagatgtg tatccacctt aacttaatga 60
tttttaccaa aatcattagg ggattcatca gtattaagcg tgaatgatgc cagagcgcaa 120
agcggttcaat ggtttgagta aggggcaaaa caggcgggat ttagggcttt tgctgccaca 180
tatccnnnnn nnnngtacta gtcgacgcgt ggcca 215

42623-0044_seq listing

<210> 37
<211> 394
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (7)..(7)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (114)..(114)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (118)..(118)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (135)..(135)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (149)..(150)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (161)..(161)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (172)..(172)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (194)..(194)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (201)..(202)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (215)..(215)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (229)..(229)
<223> n is a, c, g or t

42623-0044_seq listing

```
<220>
<221> misc_feature
<222> (232)..(232)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (246)..(246)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (249)..(249)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (257)..(257)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (275)..(275)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (277)..(277)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (280)..(280)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (285)..(285)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (290)..(290)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (292)..(294)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (298)..(298)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (300)..(304)
<223> n is a, c, g or t

<220>
<221> misc_feature
```

42623-0044_seq listing

<222> (310)..(310)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (314)..(314)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (319)..(321)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (323)..(323)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (327)..(327)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (330)..(330)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (332)..(332)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (334)..(336)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (346)..(346)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (349)..(350)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (354)..(354)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (358)..(358)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (364)..(364)
<223> n is a, c, g or t

42623-0044_seq listing

<220>
<221> misc_feature
<222> (369)..(369)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (372)..(374)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (380)..(380)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (383)..(384)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (388)..(388)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (390)..(392)
<223> n is a, c, g or t

<400> 37
aaacggncgg gatccgggat catatgacaa gatgtgtatc caccttaact taatgatttt 60
taccaaaaatc attaggggat tcatcagtat gtgtaccgtg tattggcgct aagngtgnga 120
agctttttt ccaantacca tgcttgccnn atgaccataa ngttgcgata tnttcattcc 180
gtgcattgcaa acancgtacc nnccagcgcca ccatncaact gatgcgtcng antaatgacc 240
aggttntant tattctntcg cccgagcctc atcancnaan gctcncttn tnnncggnan 300
nnnnnattttt cccngtctnn ntnttgnttn antnnnnttac gcggcnacnn atngttntg 360
gtcncntacngn cnnnnataacn gcnnnctcncn nncc 394

<210> 38
<211> 450
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (3)..(3)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (442)..(442)

42623-0044_seq listing

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (449)..(449)

<223> n is a, c, g, or t

<400> 38

cgnccgatcc gggatcatat gacaagatgt gtatccacct taacttaatg attttacca 60
aaatcattag gggattcatc agcggttcgc ccctattaca gactcacaac cacatgtga 120
ccgaatatat agtggagacg ttttagatggg taaaataatt ggtatcgacc tgggtactac 180
caactcttgt gtagcgatta tggatggcac cactcctcgc gtgctggaga acgccgaagg 240
cgatcgcacc acgccttcta tcattgccta tacccaggat ggtgaaactc tagttggtca 300
gccggctaaa cgtcaggcag tgacgaaccc gcaaaacact ctgtttgcga ttaaacgcct 360
gattggtcgc cgcttccagg acgaagaagt acagcgtgat gttccatca tgccgttcaa 420
aattattgct gctgatatcc cnccccccnng 450

<210> 39

<211> 300

<212> DNA

<213> Artificial

<220>

<223> partial gene with transposon insert

<400> 39

taccggatcc gggatataatg acaagatgt tatccacctt aacttaatga tttttaccaa 60
aatcattagg ggattcatca gcttcaagcg ccagttcaa catgcggttg atgacgcgct 120
gttcggtatg ggttaaactcg cgaccttcca ctttggtcgg gaagcgtcca tcgcccggaa 180
acaggttatac cacggcgata aacaccagac tcggtgagaa caccaccagc ccagtggcgc 240
gcagcggttt cagatggata aggttcaggt tggtcggcac cggcaggttg cgggcaaatt 300

<210> 40

<211> 300

<212> DNA

<213> Artificial

<220>

<223> partial gene with transposon insert

<220>

<221> misc_feature

<222> (1)..(2)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (6)..(6)

<223> n is a, c, g, or t

42623-0044_seq listing

<400> 40
nncgtncggg atattgacaa gatgtgtatc caccttaact taatgatttt tacaaaatc 60
attagggat tcatcagcgc ttgaaggcta tagcgacgcc tggaaaggcga ttaatccgct 120
ggaagtttag tacgtgcgtt cgaaatgca ggtgaaattt accaatatca ccacctcgcc 180
gaacgacatt gtggtaaca cgccgttcca tgtggagatt ggcaacctga cggcgaatt 240
taatatctgc ctgccattca gcatgatcga gccgctacgg gaattgttgg ttaaccggcc 300

<210> 41
<211> 250
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g, or t

<400> 41
anccgatccg ggatatatga caagatgtgt atccaccta acttaatgat ttttaccaa 60
atcattaggg gattcatcag cgcttgaagg ctatagcgc gccttggagg cgattaatcc 120
gcttggaaat gagtacgtgc gttcgaaat gcaggtgaaa tttaccaata tcaccacctc 180
gccgaacgac attgtggta acacgcccgtt ccatgtggag attggcaacc tgaccggcga 240
atttaatatc 250

<210> 42
<211> 260
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (3)..(3)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (229)..(237)
<223> n is a, c, g, or t

<400> 42
cgnccggatc cgggatcata tgacaagatg tgtatccct taacttaatg atttttacca 60
aaatcattag gggattcata agcacccctgc attcgcagga gcggagaaac atccgcccga 120

42623-0044_seq listing
gcggcaatca ccactgagcg tgcacgcct tcggcaccga ggtatgttctc aataaaatct 180
tttacttcgc gcccacgttc accaatcaa cccacgacaa tgatatccnn nnnnnnnngta 240
ctagtcgacg cgtggccat 260

<210> 43
<211> 378
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (3)..(3)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (119)..(119)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (349)..(353)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (355)..(357)
<223> n is a, c, g, or t

<400> 43
tangaaaaac gtaccggatc cgggatcata tgacaagatg tgtatccacc ttaacttaat 60
gatttttacc aaaatcatta ggggattcat cagcgctcca gcccctggag agacgcttnc 120
cagtccgcgc gttcaaaaat gccttgttgc aaatagccct ccagctgcgg ccacaggcg 180
atggctttat cgagcatcg atcgctgcct ttggcatacg cgccgacgct aaccagatcg 240
cggttacgct gaaaactcga caacagctgt ttgaagggtgc gcactcgcgc gtaatgttgc 300
tcactgatca acgccgtcat tgcgccgctg atcgacgctt caatatccnn nnnnnnnngta 360
ctagtcgacg cgtggccat 378

<210> 44
<211> 207
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature

42623-0044_seq listing

<222> (4)..(4)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (13)..(13)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (181)..(181)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (183)..(183)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (185)..(191)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (197)..(199)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (202)..(202)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (206)..(206)
<223> n is a, c, g, or t

<400> 44
agcncgccgg acntcccgga tccgggatca tatgacaaga tgtgtatcca ccttaactta 60
atgattttta ccaaaatcat taggggattc atcagagtgc ctatggaaa agccatttcg 120
aaaaatcctg gtcataaaga tgcgatatcc ccccaccgcg tactagtcga cgcgtggcca 180
nanannnnnn ncggcannnc cncccnt 207

<210> 45
<211> 351
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (179)..(179)
<223> n is a, c, g, or t

<220>

42623-0044_seq listing

```
<221> misc_feature  
<222> (181)..(181)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (196)..(196)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (246)..(246)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (248)..(248)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (256)..(256)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (261)..(261)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (276)..(277)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (279)..(279)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (293)..(293)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (300)..(300)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (302)..(302)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (324)..(324)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (331)..(331)  
<223> n is a, c, g, or t
```

42623-0044_seq listing

<220>
<221> misc_feature
<222> (339)..(339)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (350)..(350)
<223> n is a, c, g, or t

<400> 45
atacccgatc cgggatcata tgacaagatg tgtatccacc ttaacttaat gatTTTtacc 60
aaaatcatta ggggattcat cagcgcattg catcaacagt tgccgcacgg ggccaccatg 120
ttcgggtata tacacagtctg tgggaaggcg attgcccga agcatttgag cttattcang 180
ngccagttaa gtcccntacc aaccatggac gcaatgcaga atattatgcc tgggtacaaa 240
atcatntnaa acagcntccc ncaggatctg tgtcgnnng ttcaattatt atnccctcgn 300
cnggattatc ttatTTgcct gctnaatgtc ngtcttctna ttcctaaatn t 351

<210> 46
<211> 276
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (10)..(10)
<223> n is a, c, g, or t

<400> 46
ngaaaacggn ccggatccgg gatcatatga caagatgtgt atccacctta acttaatgtat 60
ttttaccaaa atcatttaggg gattcatcag cgcttgaagg ctatagcgcac gccttggaaagg 120
cgattaatcc gcttggaaagg tttaccaata gttcggaaat gcaggtgaaa 180
tcaccacctc gccgaacgac atttgtggta acacggcgtt ccatgtggag attggcaacc 240
tgaccggcga atttaatatc tgcctgccccat tcagca 276

<210> 47
<211> 300
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

42623-0044_seq listing

<220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g, or t

<400> 47
cncgatccgg gatcattgac aagatgtgta tccaccttaa cttaatgatt tttaccaaaa 60
tcattagggg attcatcaga ttcaggtgcg taataagctg gtggcggcgt atcaggaagt 120
gatgagcatg cagggttagg tttttaacc tggtttaat tacatccgat ctcaccgcgt 180
ggggcatgga tggggcaaac tcactcaatt tctggttaa aatggatacc tgatcctgaa 240
cgaaaaatgc catccacgat ccgtatacgc gataaccccc ctgaacatca gagcgtctca 300

<210> 48
<211> 337
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (8)..(8)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (306)..(307)
<223> n is a, c, g, or t

<400> 48
naaaacgncc ggatccggga tcatatgaca agatgttat ccacctaacc ttaatgattt 60
ttacaaaaat cattagggga ttcatcaggg gttataacca gttttcgcg ctccggcaac 120
gtttcgatgg cttccatcac ccgctggcgc agattactgt ccagtagttt ttgtagcggg 180
ttttctcgct gatgatcatc agtaaccagt tcgatgctat cgccgtgctc ttgcgccac 240
tcatcgtagg agaagagctg gctgttattt gtgtcgagca acatttggcg ataatcgca 300
atatcnnccc ccccccgtact agtcgacgcg tggccaa 337

<210> 49
<211> 351
<212> DNA
<213> Artificial

<220>

42623-0044_seq listing

```
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (5)..(5)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (269)..(269)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (276)..(277)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (299)..(300)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (306)..(306)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (313)..(313)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (315)..(315)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (318)..(318)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (322)..(322)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (328)..(328)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (333)..(333)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (339)..(339)
<223> n is a, c, g, or t
```

42623-0044_seq listing

<220>
<221> misc_feature
<222> (350)..(350)
<223> n is a, c, g, or t

<400> 49
atacncgacc gggatcatat gacaagatgt gtatccacct taacttaatg attttacca 60
aaatcattag gggattcatc agagtttagc tgctgccaac gcagcctgac aaagtgcggg 120
atcgccacct tcagggttga tatccagtaa cataccatcg ggtgccagtt ttatgcgcag 180
cgtacaggtt ttgcctgcat aggacgatgc gtcatagaac ttacttcga tagcagattt 240
aatctgccccg gcatagttat tgatatccnc ccccccnnnta ctatcgacg cgtggccann 300
tattcngata tcncnccnngc cngtctantc ccncgtggnc atatctgatn c 351

<210> 50
<211> 172
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (2)..(3)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (5)..(5)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (8)..(8)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (12)..(12)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (112)..(112)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (128)..(128)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (137)..(137)
<223> n is a, c, g, or t

42623-0044_seq listing

<220>
<221> misc_feature
<222> (142)..(142)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (147)..(147)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (150)..(150)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (157)..(158)
<223> n is a, c, g, or t

<400> 50
anngnaanag cncgccggac atcccgatc cggtatcata tgcacaagat gtgtatccac 60
cttaacttaa tgattttac caaaatcatt aggggattca tcagagtctt gntccacttt 120
gccaatancg cccggccntag cnctagnncn cgcacgnnc gacgcgtggc ca 172

<210> 51
<211> 270
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (3)..(3)
<223> n is a, c, g, or t

<400> 51
cgntaccgga ccgggatcat atgacaagat gtgtatccac cttaacttaa tgattttac 60
caaaatcatt aggggattca tcagtgcctg gctccttc ggcgcgtcaa cagcgattcg 120
gaatccactt cctgcaacag acgctgaatg ctgcgtatcg cgacatccac cagattctcg 180
aacaggaaca ttcgtcgat gatttctgc gccagctcgc cgtcgaattc acgcacggcg 240
gtaataacgg cttcttcctg ctgagtttc 270

<210> 52
<211> 390
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

42623-0044_seq listing

<220>
<221> misc_feature
<222> (152)..(152)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (155)..(157)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (169)..(169)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (365)..(370)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (372)..(372)
<223> n is a, c, g, or t

<400> 52
gaaaaaaacg tccggatccg ggatcatatg acaagatgtg tatcccctta acttaatgat 60

ttttaccaaa atcatttaggg gattcatcag ggttgggtac cctttgtgtt gggcaaaacc 120

atattgcggg aaaacaatat ccagcgccgc cntnnnngcg tcacgcgtna ctttcgccag 180

gatagacgcg gcactgattt ccgttacgcg gctatgcct ttcaccacag ccatgcagg 240

catcgtaat ttcgggcagc ggtaaccatc aatcaacaca tattccggcg caatatgcag 300

cccagcgacg gcacgctgca tcgcccagcat ggtcgcgtga agaatgttca gctcgtcgat 360

atccnnnnnn cncgtactag tcgacgcgtg 390

<210> 53
<211> 226
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (3)..(3)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (148)..(148)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (151)..(151)

42623-0044_seq listing

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (155)..(156)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (183)..(186)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (191)..(204)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (208)..(212)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (214)..(214)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (217)..(217)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (220)..(222)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (223)..(226)

<223> n is a, c, g, or t

<400> 53

tangaaaaaa acgttccgga tccggatca tatgacaaga tgttatcca ccttaactta 60

atgattttta ccaaatcat tagggattc atcagggttg ggtacccttt gtgttggca 120

aaaccatatt gcgggaaaac aatatccncc ncccnngtac tagtcgacgc gtggccaaat 180

atnnnnatata nnnnnnnnnn nnnctannn nncncgnggn nannnn 226

<210> 54

<211> 226

<212> DNA

<213> Artificial

<220>

<223> partial gene with transposon insert

<220>

<221> misc_feature

42623-0044_seq listing

<222> (1)..(3)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (5)..(5)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (20)..(20)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (158)..(158)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (160)..(162)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (165)..(166)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (191)..(193)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (195)..(201)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (203)..(205)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (207)..(207)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (210)..(210)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (213)..(213)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (216)..(216)
<223> n is a, c, g, or t

42623-0044_seq listing

<220>
<221> misc_feature
<222> (220)..(221)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (225)..(225)
<223> n is a, c, g, or t

<400> 54
nnngnaagc ccgcccggacn tcccgatcc gggatcatat gacaagatgt gtatccacct 60
taacttaatg atttttacca aaatcattag gggattcatc agagtcgcta gtggaaaagc 120
catttcgaaa aatcctggtc ataaagatgc gatatccngn nnccnngtac tagtcgacgc 180
gtggccaaaa nnncnnnnnn nannncnatn ctngcnccn nccanc 226

<210> 55
<211> 425
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (397)..(397)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (401)..(401)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (404)..(404)
<223> n is a, c, g, or t

<400> 55
cgaccggatc cgggatcata tgacaagatg tgtatccacc ttaacttaat gattttacc 60
aaaatcatta ggggattcat cagcactgaa tctggatta ggtttactta atcgatggc 120
cccgcaatta tccatTTTG ttattggatt tccattaact ctgactgtcg gcatctttt 180
aatggcggca ttaatgccgt taattgcacc ttttgcgaa catttattca gtgaaatttt 240
taatttgctg gctgatattta tttagtgaatt gccattaata taattccgta acgtttatca 300
tgttatccta aggattatcc gaaaaataat acctacgaac atcttccagg atactcctgc 360
agcgaatat ttgttttaag ctcactcaca tatcccncncc nccngtacta gtcgacgcgt 420
ggcca 425

<210> 56

42623-0044_seq listing

<211> 176
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (4)..(4)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (11)..(11)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (13)..(13)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (118)..(119)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (121)..(122)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (124)..(125)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (148)..(148)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (152)..(156)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (160)..(161)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (163)..(168)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (174)..(176)
<223> n is a, c, g, or t

42623-0044_seq listing

```
<400> 56
aacnaaacgg ntncggcatc gggatcatat gacaagatgt gtatccacct taacttaatg      60
atttttacca aaatcatttag gggattcatc agcgctgcgc atacttatgc catatccnnnc      120
nngnnggtac tagtcgacgc gtggccanat tnnnnnatcn ncnnnnnnngg ggcnnn      176

<210> 57
<211> 355
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (273)..(273)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (290)..(291)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (293)..(293)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (295)..(296)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (298)..(298)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (300)..(300)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (307)..(307)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (310)..(310)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (321)..(321)
<223> n is a, c, g, or t

<220>
```

42623-0044_seq listing

<221> misc_feature
<222> (328)..(328)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (330)..(332)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (339)..(339)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (341)..(342)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (349)..(349)
<223> n is a, c, g, or t

<400> 57
aaacgaccgg accgggatca tatgacaaga tgtgtatcca ccttaactta atgattttta 60
ccaaaatcat taggggattc atcagggggc aagttgcattt tggcgcttc gtagccttc 120
ccggctaaag attgagcttg ctttgcgaca tcatcaatac tgaaagccca gcttgaagat 180
gtatacaggg ttaacattac tgcagcactc aaccaacgca ttttcattat ttgttagctta 240
tgtttcataa ttagtaaggc acttccccct ttngtgtgct tatatccctn ngntnnncntn 300
ctagtcnacn cgtggccact nctatccngn nntccccngt nngcagtant cagac 355

<210> 58
<211> 380
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<400> 58
gatcatatga caagatgtgt atccacctta acttaatgtat ttttacaaa atcattaggg 60
gattcatcag ggctgcgccccc cttttccag cgccctcgtc attgatattt tctcttcgct 120
gaatggctgg tacgcata catabttt gtcgatcacc ggtgacataa taaaaaaggt 180
caaaaacagt gccagccccca gcaatacctg gttaggtggc gcggagggtg ttcccagcgc 240
gttacgcaat aaaccaaaaaa caatgatgtat gcgggtgaaa ctggtcata tcagtaaaat 300
tgccggaata aacgtcaacg aggtgatgaa caccagcg tcgacccggga gcgaccagct 360
ttgtccaccg ccaggcagcg . 380

<210> 59

42623-0044_seq listing

<211> 449
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (7)..(7)
<223> n is a, c, g, or t

<400> 59
natacgncgg gatccgggat catatgacaa gatgtgtatc cccttaactt aatgattttt 60
accaaaaatca ttaggggatt catcagggtg caacctgtat cacacccgat gaaagattaa 120
ttagtcaaga ttatgatatc ttttaacgg ataatccgtc taatcttact gcctctggct 180
tgcttttaag cgatgatgag tctggcgtac gggaaattgg gcctggtcaa ttgtgcgtca 240
acttcaatat gagcaacgct atgcaggaag cggcttaca attaattgaa gtgcaactgg 300
cgcaggaga ggtgacagaaa tcgcctctgg gcggagatga aaatgcgcaa ctccatgcc 360
gcggcttatta tgcgctcttt gtagacacag taccggatga tgttaagagg ctgtatactg 420
aaggcagcaac cagtgacttt gctgcgtta 449

<210> 60
<211> 450
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (2)..(5)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (62)..(62)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (78)..(78)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (86)..(86)

42623-0044_seq listing

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (96)..(96)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (98)..(98)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (110)..(110)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (125)..(125)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (132)..(132)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (141)..(141)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (157)..(157)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (159)..(159)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (173)..(173)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (182)..(182)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (194)..(194)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (212)..(212)

<223> n is a, c, g, or t

<220>

42623-0044_seq listing

```
<221> misc_feature
<222> (222)..(222)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (228)..(229)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (232)..(232)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (235)..(235)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (239)..(239)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (246)..(246)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (248)..(248)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (251)..(251)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (254)..(255)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (262)..(262)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (266)..(267)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (272)..(272)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (276)..(276)
<223> n is a, c, g, or t
```

42623-0044_seq listing

```
<220>
<221> misc_feature
<222> (279)..(280)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (283)..(283)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (285)..(286)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (288)..(288)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (290)..(290)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (293)..(293)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (295)..(295)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (298)..(298)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (301)..(303)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (305)..(305)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (307)..(308)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (310)..(310)
<223> n is a, c, g, or t

<220>
<221> misc_feature
```

42623-0044_seq listing

```
<222> (313)..(313)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (321)..(321)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (323)..(326)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (332)..(332)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (334)..(336)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (338)..(339)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (341)..(347)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (349)..(349)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (352)..(353)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (357)..(358)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (364)..(364)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (366)..(366)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (369)..(370)
<223> n is a, c, g, or t
```

42623-0044_seq listing

```
<220>
<221> misc_feature
<222> (372)..(373)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (375)..(377)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (379)..(379)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (382)..(382)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (384)..(384)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (386)..(386)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (390)..(390)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (394)..(394)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (399)..(399)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (405)..(405)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (410)..(411)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (413)..(413)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (418)..(418)
```

42623-0044_seq listing

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (423)..(423)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (429)..(429)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (434)..(434)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (437)..(440)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (444)..(444)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (446)..(446)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (449)..(450)

<223> n is a, c, g, or t

<400> 60

annnnncgatc cgggatcata tgacaagatg tgtatccacc ttaacttaat gatTTTtacc 60

anaatcatta ggggattnat cagctnaatg catgcncnac cattgcctcn gctgttgca 120

accgngtaag gngcattcat ntgcataatgt tgctgcnanc aatctggctg agnagacaag 180

cncactcccc tganacgcat cgcgattat tntacgtgaa ancggatnna angngtgnt 240

aaaccnanga nccnnncgcg antatnnntc cnctgnccn ctnanntngn ctngnacnga 300

nnncnanncn acncctctt ntnnnnnttcc gntnnnnng nnnnnnnntng tnntccnncc 360

tgtntncann tnnccnnngnt cntrncnccn tctntccant gccanttgtn ncntaggtncg 420

atntctgcng accnacnnnn tagnancnn 450

<210> 61

<211> 212

<212> DNA

<213> Artificial

<220>

<223> partial gene with transposon insert

42623-0044_seq listing

<220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (6)..(6)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (206)..(212)
<223> n is a, c, g, or t

<400> 61
gnaaancccg ccggacatcc cgatccggg atcatatgac aagatgtgta tccacctaa 60
cttaatggat ttttaccaaa atcattaggg gattcatcgag gcggtagcgt gctttttct 120
gcttaactta accagacaat cacacaaaag agtcgctagt ggaaaagcca tttcgaaaaa 180
tcctggatcat aaagatgcga tatccnnnnn nn 212

<210> 62
<211> 333
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (7)..(7)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (19)..(19)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (24)..(24)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (32)..(32)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (38)..(38)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (55)..(55)

42623-0044_seq listing

<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (65)..(65)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (89)..(89)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (131)..(131)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (138)..(138)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (141)..(141)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (165)..(165)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (167)..(167)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (186)..(186)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (195)..(195)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (199)..(199)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (201)..(202)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (204)..(205)
<223> n is a, c, g, or t

<220>

42623-0044_seq listing

```
<221> misc_feature
<222> (208)..(208)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (214)..(214)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (225)..(225)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (227)..(227)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (233)..(234)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (239)..(239)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (252)..(252)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (257)..(257)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (260)..(261)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (265)..(265)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (269)..(270)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (275)..(275)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (277)..(279)
<223> n is a, c, g, or t
```

42623-0044_seq listing

```
<220>
<221> misc_feature
<222> (281)..(281)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (286)..(286)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (288)..(288)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (290)..(290)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (293)..(293)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (295)..(295)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (298)..(298)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (300)..(300)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (305)..(305)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (318)..(319)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (321)..(321)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (324)..(324)
<223> n is a, c, g, or t

<220>
<221> misc_feature
```

42623-0044_seq listing

<222> (326)..(326)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (329)..(329)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (331)..(332)
<223> n is a, c, g, or t

<400> 62
aacgctnccg atccggatna tatnaacaga tntgtatnca ctttatctta atganattt 60
accanaaatca tattggggat atcatatatang ggctgcccccc ttttccagc ccctactgca 120
ttgatatttt ntcttcgntg natggctggt acgcacatctac ataantttg acgatcaccg 180
gtgacnataat aaaanaggnc nnanncantg ccantcccag caatncntgg ttnngtgng 240
cggaacgggtgc tnccatngcn ngacncacnn aaccnannnc natgangntrn ccncnganan 300
tgganatcat cctgcaannc nacngnatnc nna 333

<210> 63
<211> 284
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (3)..(3)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (88)..(88)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (90)..(90)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (90)..(90)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (108)..(108)
<223> n is a, c, g, or t

<220>
<221> misc_feature

42623-0044_seq listing

```
<222> (118)..(118)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (179)..(180)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (182)..(182)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (184)..(184)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (187)..(188)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (215)..(219)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (222)..(222)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (227)..(228)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (230)..(230)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (236)..(237)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (239)..(240)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (242)..(243)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (245)..(245)
<223> n is a, c, g, or t
```

42623-0044_seq listing

<220>
<221> misc_feature
<222> (253)..(253)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (256)..(256)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (258)..(260)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (265)..(267)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (269)..(272)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (274)..(274)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (277)..(277)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (284)..(284)
<223> n is a, c, g, or t

<400> 63
cgnccggatc cgggatcata tgacaagatg tgtatccacc ttaacttaat gattttacc 60
aaaatcatta ggggattcat cagcgatnan ctgcaataag cagaaccncc ttttggnnt 120
aatatgtcct tacaaataga aatgggtctt tacacttac tacatgtttt cctatatcnn 180
cncnccnngt actagtgcac gcgtggccat ttatnnnnna tntcctnnnt gtctcnngnn 240
cnnncnccgg ccncancnnn atatnnntnn nncnctncac tctn 284

<210> 64
<211> 420
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature

42623-0044_seq listing

<222> (381)..(382)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (384)..(387)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (412)..(412)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (414)..(415)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (418)..(418)
<223> n is a, c, g, or t

<400> 64
aacccgatcc gggatcatat gacaagatgt gtatccacct taacttaatg atttttacca 60
aaatcattag gggattcatc agggctgggt tggcaatgggt gtctacgttt ctggtgtgca 120
gcgtgagtagt gatgcgttta ttaccaacca gttacgtgcg gcgcagacgc aaagttagcgg 180
tctgactgcc cgctatgagc agatgtcgaa aatcgacaat atgctctcca ccagtacctc 240
ttcgctggca acacagatgc aggatttctt caccagcctg caaacgctgg tgagtaacgc 300
ggaagacccg gcagcgcgcc aggcgctgat tggaaatca gaaggattgg tgaatcagtt 360
taaaaaccacc gatcaatatc nnccnnnccc gtactagtcg acgcgtggcc anannatnct 420

<210> 65
<211> 283
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (6)..(6)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (14)..(14)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (160)..(160)
<223> n is a, c, g, or t

42623-0044_seq listing

<220>
<221> misc_feature
<222> (170)..(170)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (233)..(233)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (235)..(236)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (239)..(239)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (241)..(241)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (267)..(268)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (270)..(270)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (272)..(272)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (274)..(274)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (283)..(283)
<223> n is a, c, g, or t

<400> 65
atacngatc cggnctat gacaagatgt gtatccctt aacttaatga ttttaccaa 60
aatcattagg ggattcatca ggcttacgcc tgctttgcg ttgttgatgg catcacggat 120
cccgcttaac gatgagttag ccgcgcgtat atcaatggtn atcgtaactan tcgacgcgtg 180
gccatgaatg gtgagttac tgtcgctggt ggcgatcgcc gtttcatat cgncnntn 240
ngtactagtc gacgcgtggc caaatnnntn tnanaaaaaat tcn 283

<210> 66

42623-0044_seq listing .

<211> 334
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<400> 66
aacggttacc ggatccggga tcatatgaca agatgtgtat ccaccta ac ttaatgattt 60
ttacaaaaat cattagggga ttcatcagcg cgcatatcg atttgccag tgaactaaa 120
aaagtcatgc aacgtggacg ggatgcaacc agtgtggttg cactgacgat gacctcaacg 180
caacacattc cggcgcaggc gctgacgcct cctaccgcag aactgcaata ccgtattccg 240
gaccagcctt cgcttgacgg taataccgtc gatatggatc gcgaacgcac ccagttgcc 300
gataaacagcc tgcaatacca gatgagcctt agcg 334

<210> 67
<211> 272
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (3)..(3)
<223> n is a, c, g, or t

<400> 67
cgntaccgga tccgggatca tatgacaaga tgtgtatcca ccttaactta atgattttta 60
ccaaaatcat taggggattc atcagcacga cgcgttgcg cgctttgtcg tcagcggcaa 120
cctgatgcga atgccagtag ctgtaacctg cgctggcaca ggccgcgagg gtaatgaata 180
ccagaatcggtt gatccaaagc gatcgcttgc ttttcttgct tatcgcgtaa tcagtcatgt 240
gttgccgtct tcctgtgtcg ctactgctta tc 272

<210> 68
<211> 394
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (242)..(242)
<223> n is a, c, g, or t

<220>
<221> misc_feature

42623-0044_seq listing

<222> (253)..(253)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (272)..(272)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (286)..(286)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (288)..(288)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (302)..(302)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (316)..(316)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (318)..(319)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (331)..(331)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (334)..(334)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (342)..(342)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (352)..(352)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (357)..(357)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (359)..(359)
<223> n is a, c, g, or t

42623-0044_seq listing

<220>
<221> misc_feature
<222> (364)..(365)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (368)..(368)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (374)..(375)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (377)..(378)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (382)..(382)
<223> n is a, c, g, or t

<400> 68
aaacgaccgg atccgggatc atatgacaag atgtgtatcc accttaactt aatgatttt 60
accaaaaatca ttaggggatt catcagcgct aagtgtgtga agctttttt ccaaatacca 120
tgctgccat gaccataaag ttgcgatatt ttcatccgtg caggtaaaca acgtaccagc 180
agcgccacca tccactgatc cgtaagatta atgaccaggt cataattatt cgcacgcaga 240
gnttttatca acnaaagcac attttaatt tnatcgaag ttcccncncc tttattgctt 300
ancccataga ggcgcantnnt ttccgggttt ncanacaaa tntggatggt gncctgnrna 360
agcnncangt ctanntnngc tntatgagaa tctg 394

<210> 69
<211> 392
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (152)..(152)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (157)..(157)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (159)..(159)

42623-0044_seq listing

```
<223> n is a, c, g, or t  
<220>  
<221> misc_feature  
<222> (164)..(164)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (170)..(170)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (199)..(199)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (214)..(214)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (231)..(231)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (242)..(242)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (244)..(244)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (259)..(259)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (266)..(266)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (271)..(271)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (277)..(277)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (287)..(288)  
<223> n is a, c, g, or t  
  
<220>
```

42623-0044_seq listing

```
<221> misc_feature
<222> (294)..(294)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (302)..(302)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (307)..(308)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (321)..(321)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (324)..(324)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (326)..(326)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (334)..(335)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (340)..(340)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (344)..(344)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (346)..(347)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (351)..(353)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (358)..(358)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (360)..(360)
<223> n is a, c, g, or t
```

42623-0044_seq listing

<220>
<221> misc_feature
<222> (364)..(364)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (371)..(371)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (375)..(376)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (378)..(379)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (387)..(387)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (392)..(392)
<223> n is a, c, g, or t

<400> 69
aaacgaccgg atccgggatc atatgacaag atgtgtatcc accttaactt aatgatttt 60
accaaaaatca ttaggggatt catcagagt ttacccgtt cggtagctg cgttcgctca 120
gaatcggcgc ggtggagatc atcgccagct cnccgatna cggncagaan tacaggtta 180
accaggatag ccattgttng cttgccacct gcancatagt acggttaccc natgatttac 240
tnngnaggtta gtgaacaang tgccggcagt nattcancaa cacatnnngc atgnctgtc 300
tnngcannta ttttgttngt naanangggcc gatnnttttngt cgantnnccg nnntgggntn 360
cttnttcatc nagtnncnna tggcgngta tn 392

<210> 70
<211> 482
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (5)..(5)
<223> n is a, c, g, or t

<400> 70
tacgnccgat ccggatcat atgacaagat gtgttatccac cttaacttaa tgatTTTAC 60
Page 60

42623-0044_seq listing

caaaatcatt	aggggattca	tcagggctgc	gccctttt	ccagcgctc	ctgcattgat	120
attttctctt	cgctgaatgg	ctggtagc	tctacataaa	ttttgtcgat	caccggtgac	180
ataataaaaa	aggtcaaaaa	cagtgcagc	cccagcaata	cctggtagg	tggcgccggag	240
ggtgttccca	gcgcgttacg	caataaacca	aaaacaatga	tgatgcgggt	gaaactggtc	300
atcatcagta	aaattgcccgg	aataaacgtc	aacgagggtga	tgaacaccag	cgtctgcacc	360
gggagcgacc	agctttgtcc	accgccaggc	agcggctggc	tggtgatacc	cggcagttgc	420
gcgaaggcga	ggggcgtaat	cagccagaga	aggacaggtg	cgacagacaa	taaacgacgc	480
at						482

<210> 71
<211> 225
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (4)..(4)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (13)..(13)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (134)..(134)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (195)..(196)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (198)..(201)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (203)..(204)
<223> n is a, c, g, or t

<400> 71

42623-0044_seq listing

gnngaaaaac gtnccggatc cgggatcata tgacaagatg tgtatccacc ttaacttaat	60
gatttttacc aaaatcatta ggggattcat caggatggtg tcctgataaa gcagcatatc	120
gatttttgcg tcangataat tctgcttgag cgtactgatg acaggagtatg ttaataacat	180
atccccatga tatcnnncnnn ncnnntacta gtcgacgcgt ggcca	225
<210> 72	
<211> 350	
<212> DNA	
<213> Artificial	
<220>	
<223> partial gene with transposon insert	
<220>	
<221> misc_feature	
<222> (3)..(3)	
<223> n is a, c, g, or t	
<400> 72	
cgnccggatc cgggatcata tgacaagatg tgtatcccct taacttaatg atttttacca	60
aaatcattag gggattcatc agcctggtgc ctggaatgcc gaacctggta ttttgctgt	120
tcactgcccgg attgctcgaaa ctggcctgggt ggatacgcgg acgcgaacaa aaagcgccctg	180
ccgaacccaa accggtaaaa atggcagaga ataataccgt tgtcgaagcg acgtggaacg	240
atgtacaact ggaagattct ctggaaatgg aagtgggtta tggactgatc ccgatggtcg	300
atttccagca ggatggtgag ttgttgggcc gtatacgcag tatccgcaag	350
<210> 73	
<211> 380	
<212> DNA	
<213> Artificial	
<220>	
<223> partial gene with transposon insert	
<220>	
<221> misc_feature	
<222> (5)..(5)	
<223> n is a, c, g, or t	
<220>	
<221> misc_feature	
<222> (380)..(380)	
<223> n is a, c, g, or t	
<400> 73	
acgtnccgga tccggatca tatgacaaga tgtgtatcca ccttaactta atgattttta	60
ccaaaatcat taggggattc atcagcctgg tgcctggaaat gcccgAACCT ggtatttttg	120
ctgttcactg ccggattgct cggcgtggcc tggtgatc gcggacgcga aaaaaagcg	180

42623-0044_seq listing

cctgccgaac ccaaaccggt aaaaatggca gagaataata ccgttgtcga agcgacgtgg	240
aacgatgtac aactggaaga ttctctggga atggaagtgg gttatcgact gatcccgatg	300
gtcgatttcc agcaggatgg tgagttgttgc ggccgtatac gcagtatccg caagaaattt	360
gcccaggaga tgggatatcn	380

<210> 74
<211> 287
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (3)..(5)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (165)..(165)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (168)..(168)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (171)..(171)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (196)..(203)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (205)..(206)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (208)..(209)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (215)..(216)
<223> n is a, c, g, or t

42623-0044_seq listing

```
<220>
<221> misc_feature
<222> (222)..(223)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (225)..(225)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (229)..(229)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (231)..(231)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (234)..(234)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (236)..(236)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (238)..(238)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (244)..(244)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (248)..(249)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (251)..(251)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (253)..(253)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (255)..(256)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (258)..(258)
```

42623-0044_seq listing

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (261)..(261)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (263)..(263)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (268)..(268)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (270)..(270)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (275)..(276)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (280)..(280)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (285)..(286)

<223> n is a, c, g, or t

<400> 74

ntnnnnaaaac acgccggaca tccggatccg ggatcatatg acaagatgtg tatccacctt 60

aacttaatga ttttaccaa aatcattagg ggattcatca gcgcgttgcc cgccatttc 120

gtatgggct gttcaacctg ctgcgtcgta gcccggatat atccnccnng ngcgtactag 180

tcgacgcgtg gccaannnnn nnncnnncnn tagcnntaaa anngncatna nccncncnca 240

caancacnna ngnanncnntt ncnaaacnan cgtannatan ccccnnc 287

<210> 75

<211> 152

<212> DNA

<213> Artificial

<220>

<223> partial gene with transposon insert

<220>

<221> misc_feature

<222> (1)..(2)

<223> n is a, c, g, or t

42623-0044_seq listing

<220>
<221> misc_feature
<222> (116)..(116)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (127)..(127)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (137)..(137)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (139)..(139)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (142)..(142)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (145)..(145)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (148)..(148)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (150)..(150)
<223> n is a, c, g, or t

<400> 75
nnaaagcccg ccggacatcc cgatcggga tcataatgaca agatgtgtat ccaccttaac 60
ttaatgattt ttacaaaaat cattaggggta ttcatcagcg caaagcctgc tttganatcc 120
gtaaagngcg gactaancna cncgngnncn aa 152

<210> 76
<211> 450
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g, or t

<220>

42623-0044_seq listing

```
<221> misc_feature
<222> (13)..(13)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (202)..(202)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (204)..(205)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (207)..(210)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (234)..(234)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (236)..(236)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (238)..(238)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (244)..(244)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (246)..(246)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (251)..(252)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (255)..(256)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (258)..(258)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (277)..(277)
<223> n is a, c, g, or t
```

42623-0044_seq listing

```
<220>
<221> misc_feature
<222> (281)..(282)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (284)..(284)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (290)..(290)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (292)..(294)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (301)..(301)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (306)..(308)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (313)..(313)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (316)..(316)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (318)..(318)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (325)..(325)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (327)..(328)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (332)..(333)
<223> n is a, c, g, or t

<220>
<221> misc_feature
```

42623-0044_seq listing

```
<222> (341)..(342)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (349)..(350)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (352)..(352)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (354)..(355)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (359)..(359)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (361)..(361)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (365)..(368)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (371)..(373)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (377)..(377)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (380)..(380)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (386)..(386)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (389)..(390)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (392)..(392)
<223> n is a, c, g, or t
```

42623-0044_seq listing

```
<220>
<221> misc_feature
<222> (396)..(396)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (399)..(399)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (401)..(402)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (408)..(409)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (411)..(411)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (413)..(413)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (417)..(418)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (421)..(421)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (423)..(424)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (426)..(426)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (429)..(429)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (431)..(431)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (437)..(437)
```

42623-0044_seq listing

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (448)..(448)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (450)..(450)

<223> n is a, c, g, or t

<400> 76

gngaaaaaaaaa cgnaccggat ccgggatcat atgacaagat gtgtatcccc ttaacttaat 60

gatttttacc aaaatcatta ggggattcat cagggttaaa tccattaact cgcgcatcat 120

ttattattac cgaagatctc actcccacaa ttgccttga agattattgt gccgattggg 180

cagtcaaccc gcctgatatac cnngncnnnn gtactagtcg acgcgtggcc atanantnag 240

ctcnctnctac nnccnnntc ctatccaccc gtggctncag nnancattcn gnnnacacca 300

nttacnnncc agnccncntc ccccnngnct cnntactca nnacttcann anannatgnc 360

nttcnnnngc nnntcgntcn cccacnacnn cnnttnttnc nnctctnnnc nanctcncc 420

ntnnncnctnt nattccnctt ttaccctnan 450

<210> 77

<211> 400

<212> DNA

<213> Artificial

<220>

<223> partial gene with transposon insert

<220>

<221> misc_feature

<222> (2)..(3)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (9)..(9)

<223> n is a, c, g, or t

<400> 77

gnngaacgnc ggatccggga tatatgacaa gatgtgtatc cacctaact taatgatttt 60

taccaaaaatc attagggat tcatcagcac tttgcattga ttgcagtatg gacatcagat 120

ccatcggtgt agcgcccagc gcattgagcg cgccgaccac gttattgagg ctggcgctgg 180

aacgtacgct ttgcagcgaa ccgccgtct ggcgtaaatc gatctgcgtt tgtggagtaa 240

ccacagtctg tccaccacca aacggtgtat ctggctggct gacattggcc tgacgattaa 300

ctgttactga gagattcccc tgcgttaccg cgccagctgtc gagggtaact tcgcgattca 360

tcaccaccga accggtgcgc gaggtaatca ctacttttagc 400

42623-0044_seq listing

<210> 78
<211> 450
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (4)..(4)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (13)..(13)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (155)..(155)
<223> n is a, c, g, or t

<400> 78
tnngaaaaac gtnccggatc cgggatcata tgacaagatg tgtatccacc ttaacttaat 60
gattttacc aaaatcatta ggggattcat cagggtcagg tctggattta agttccatcc 120
ttgatagcct caccgcccg 4 caaaaagcga cgctnacccc catttcaaat cagcaatcgt 180
cgtttaccgc taaacttagc gcctacggta cgctgaaaag cgcgctgacg actttccaga 240
ccgccaatac tgcattgtct aaagccgatc tttttccgc caccagcacc accagcagca 300
ccaccgcgtt cagtgccacc actgcgggta acgccatcgc cggaaatac accatcagcg 360
tcaccatct ggcgcagggcg caaacccctga ccacgcgcac caccagagac gatacgaaaa 420
cggcgatcgc caccagcgcac agtaaactca 450

<210> 79
<211> 397
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (1)..(2)
<223> n is a, c, g, or t

42623-0044_seq listing

```
<220>
<221> misc_feature
<222> (4)..(5)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (22)..(22)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (24)..(24)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (26)..(27)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (32)..(32)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (36)..(36)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (89)..(89)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (93)..(93)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (157)..(157)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (166)..(166)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (241)..(241)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (284)..(284)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (303)..(303)
```

42623-0044_seq listing

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (311)..(311)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (316)..(316)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (319)..(319)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (327)..(328)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (331)..(331)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (340)..(340)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (359)..(359)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (363)..(363)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (374)..(374)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (379)..(379)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (382)..(382)

<223> n is a, c, g, or t

<400> 79

nnannaacaa tacgtcccaa gnananntga cnagangtgt atccacctta acttaatgat 60

tttacccaaa atcattaggg gattcatcng ggnccggct ggatttaagt ttccatcctt 120

gatagcctca ccggcgacg aaaagcgacg ctaaccncca tttcanatca gcaatcgctg 180

42623-0044_seq listing

tttaccgcta aacttagcgc ctacggtacg ctgaaaagcg cgctgacgac tttccagacc	240
nccaaatactg cattgtctaa agccgatctt tttccgccca ccancaccac ctgcagcacc	300
acngcggtca ntgccnccnc tgccggnnac nccatgccn ggaataaccc cattaccnt	360
canccatctg gcanatgcng cnaacccttg aacacgc	397

<210> 80
<211> 331
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<400> 80 aaaacgtccg gatccggat catatgacaa gatgtgtatc cacccttaact taatgatttt	60
taccaaaatc attagggat tcatacgacgc tcaatctgcg cgcccagcgt caggaagtgc	120
tggcagcaaa catcgccaat gccgataaccc ctggttatca ggcgcgcgat atcgattttg	180
ccagtgaaact taaaaaaagtc atgcaacgtg gacgggatgc aaccagtgtg gttgcactga	240
cgtatgacctc aacgcaacac attccggcgc aggcgctgac gcctcctacc gcagaactgc	300
aataccgtat tccggaccag cttcgcttg a	331

<210> 81
<211> 276
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (10)..(10)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (146)..(146)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (151)..(151)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (153)..(156)
<223> n is a, c, g, or t

<220>
<221> misc_feature

42623-0044_seq listing

<222> (158)..(158)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (160)..(164)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (166)..(166)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (221)..(221)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (229)..(229)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (233)..(234)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (253)..(254)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (256)..(256)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (258)..(261)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (263)..(263)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (266)..(266)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (270)..(270)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (272)..(273)
<223> n is a, c, g, or t

42623-0044_seq listing

<220>
<221> misc_feature
<222> (276)..(276)
<223> n is a, c, g, or t

<400> 81
ataaaaacggn taccggatcc gggatcatat gacagatgtg tatccacctt aacttaatga 60
tttttaccaa aatcattagg ggattcatga gggcgctgtt tccacagccc ttttaacgtt 120
tcaggcatta atatccagca cagtgcgcct ngnnnncncn nnnncntcca ctgattcaac 180
tgcagcttcc agctaata tc aatatcttcg gtgatcatat nagtccacnc ggnncttagtc 240
gacgcgtggc cannantnnn ncnttnnnn tnnctn 276

<210> 82
<211> 264
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (211)..(214)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (216)..(219)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (241)..(241)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (243)..(244)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (246)..(246)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (248)..(249)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (253)..(253)
<223> n is a, c, g, or t

<220>
<221> misc_feature

42623-0044_seq listing

<222> (257)..(257)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (259)..(260)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (263)..(264)
<223> n is a, c, g, or t

<400> 82
tttaaaaacc ggttaccgga tccgggatca tatgacaaga tgtgtatcca ccttaactta 60
atgatttta caaaaatcat taggggattc atcagtgcga ggcgtttt ccggccattg 120
tcgcagcact gtaacgcgta aaatagtgtt ttctcttact cttctggctg gaccatgaga 180
cttctgattc tgactcttc attaatatcc nnnncnnnng tactagtcga cgcggtggca 240
nannantnnt atntttannn acnn 264

<210> 83
<211> 242
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (21)..(21)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (168)..(169)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (173)..(175)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (199)..(199)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (201)..(201)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (204)..(204)
<223> n is a, c, g, or t

42623-0044_seq listing

42623-0044_seq listing

```
<221> misc_feature
<222> (3)..(4)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (15)..(15)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (176)..(176)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (180)..(180)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (183)..(183)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (188)..(188)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (207)..(207)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (220)..(220)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (223)..(223)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (226)..(226)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (234)..(234)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (236)..(236)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (241)..(241)
<223> n is a, c, g, or t
```

42623-0044_seq listing

```
<220>
<221> misc_feature
<222> (245)..(245)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (274)..(274)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (283)..(283)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (285)..(285)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (291)..(291)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (296)..(296)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (311)..(312)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (316)..(316)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (322)..(322)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (327)..(327)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (333)..(333)
<223> n is a, c, g, or t

<400> 84
gcnnngcgta aacgnccgga tccggatca ttgacaagat gtgtatccac cttaactaa      60
tgattttac caaaatcatt agggggattc atcagagat a gtgtgacag tgggagttaa      120
gtatgccaga ggtacaaaca gatcatccag agacggcgga gttaagcaa ccacanctt      180
```

42623-0044_seq listing

cgnatggncg atttcaactt attaacnctt ttcgatgccn tgntgnagga gccnancatt	240
nttcncagcc cgctcatcgc cctggaaacc ttcncccccc ctncnttcct ntgctngcct	300
tggggcccccc nncacncaac gnagacnggg ccnatccc	338

```

<210> 85
<211> 259
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (91)..(91)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (95)..(95)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (97)..(97)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (100)..(100)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (102)..(102)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (104)..(106)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (111)..(111)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (115)..(115)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (117)..(117)
<223> n is a, c, g, or t

<220>
<221> misc_feature

```

42623-0044_seq listing

<222> (146)..(146)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (208)..(208)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (210)..(210)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (230)..(230)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (232)..(232)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (241)..(243)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (246)..(250)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (254)..(254)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (256)..(258)
<223> n is a, c, g, or t

<400> 85
aaccgttaccg gatccgggat cattgacaag atgtgtatcc accttaactt aatgatttt 60
acccaaaatca ttagggggat tcatacgatgc nacgnncnctn tnannnccat ngatntngca 120
ctgtaacgcg ctaaataacg cttgtntctt actcttctgg ctggaccatg agacttctga 180
ttctgactct ttcatattaata tccccccnccn ccgtactagt cgacgcgtgn cnatattatg 240
nnnccnnnnnn ctantnnnc 259

<210> 86
<211> 250
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

42623-0044_seq listing

<220>
<221> misc_feature
<222> (2)..(3)
<223> n is a, c, g, or t

<400> 86
cnnccggatc cgggatcata tgacaagatg tgtatccacc ttaacttaat gattttacc 60
aaaatcatta ggggattcat cagaggcaag tgtcaataat ctgacgagca agtttatttc 120
gttccattag ctacctctct ctgattcaaa acagggaat aatgttgttc ctttcacact 180
attgaattag ccgtttaatt acccaccatc ttcttcctga ttaacaagaa agaaattcac 240
aagcttatat 250

<210> 87
<211> 390
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (5)..(5)
<223> n is a, c, g, or t

<400> 87
aacgnccgat tccggatcat atgacaagat gtgtatccac cttaacttaa tgattttac 60
caaaatcatt aggggattca tcagccagat gcgttcctga ccctaagtgc agacttcatg 120
acgctggta ctgtcgaaaa aatcagtgaa agcccaggag acaccgtact tacgccgctc 180
attttatac cagcgaacat aagcctgagc actgttgccct gtaacaccat ttttcattgc 240
ccgtaatgga acgcggtgag agaggcggttc cagttgcgaa ccaatacgcc agttatcatt 300
aaaatcatac cagccagaca ggccgcgcgc gggtttatgc tcatgattga aaacgcgttc 360
acgtactct gcctcgagcc agatattacg 390

<210> 88
<211> 314
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (5)..(6)
<223> n is a, c, g, or t

<220>

42623-0044_seq listing

<221> misc_feature
 <222> (139)..(139)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (141)..(141)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (144)..(144)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (149)..(149)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (153)..(155)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (157)..(157)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (162)..(162)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (170)..(170)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (176)..(176)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (178)..(178)
 <223> n is a, c, g, or t

<400>	88					
aacgnnccgg	atccgggatc	atatgacaag	atgtgtatcc	accttaactt	aatgattttt	60
accaaaaatca	ttagggatt	catcagtgcc	cagggttttc	accttgcaat	ggccgggtat	120
aaacaggcag	gaaattgana	ncantgagnnc	atnnncnacg	anaccaattn	ctggcntngc	180
cgggcattat	cttttaatt	ctcttccc	tcatttttc	gctatggatt	gccttccttt	240
gggcaaaatc	agaagtgaat	aatcagctcc	gaacctttgc	tcaactggca	ctggataaaat	300
ccgagcttgt	catt					314

42623-0044_seq listing

<210> 89
<211> 432
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g, or t

<400> 89

cncgcggac atccggatcc gggatcatat gacaagatgt gtatccacct taacttaatg	60
attttacca aaatcattag gggattcatc aggtacagt tagcgcccc ggataatttt	120
cactctccag gtggctgtaa aagagatccg caagttcttc atcggataaa tccggggcaa	180
tggtctcctt gtgataaaaag agctcggtca ttattgactg tgctttttc ggctgatgat	240
ctttgagata agccgatgca acccaatatt gcccccaggg cggaataatt tgccccgtct	300
tttttaatcg ctgatagtga gaaataacgt ctttataacg atcgcgagtt aataacgcgc	360
caagatgatc aacctaata cgctggtaact gggcagtgcg gtctgggta tcgtgccaca	420
gaatttctaa tg	432

<210> 90
<211> 209
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (89)..(89)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (95)..(95)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (99)..(99)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (110)..(110)
<223> n is a, c, g, or t

<220>
<221> misc_feature

42623-0044_seq listing

<222> (112)..(112)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (121)..(122)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (136)..(136)
<223> n is a, c, g, or t

<400> 90
aaacgaccgg accggatcat atgacaagat gtgtatccac cttaacttaa tgattttac 60
caaaatcatt aggggattca tcagtgccng gcgtnttnc cggccattgn cncagcactg 120
nnacgcgtaa aatagngctt tctcttactc ttctggctgg accatgagac ttctgattct 180
gactcttca ttaatatccc ccccccccg 209

<210> 91
<211> 450
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (4)..(5)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (11)..(11)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (200)..(200)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (205)..(205)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (208)..(208)
<223> n is a, c, g, or t

<220>

42623-0044_seq listing

<221> misc_feature
<222> (210)..(210)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (214)..(214)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (419)..(420)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (427)..(428)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (431)..(431)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (434)..(434)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (439)..(439)
<223> n is a, c, g, or t

<400> 91
ngannatacg nccgatccgg gatcatatga caagatgtgt atccccttaa cttaatgatt 60
tttaccaaaa tcattagggg attcatcagg ttgaaacatc ttataagggg tggcaaaact 120
cacccgggat gcaagcgaaa cagggagtc attgcttaga tcatgcacagg taatggcg 180
gatatcgaat gttatgcaan caganaanan cagnctgttc aaatggctgt gcgattctgg 240
atagccccaa atagtcaact tcaggctatc cagagagccg aattattccg ccaaagtgcg 300
tttttgctgt tcgagatcgc gttcaatgcc gtcacgaaca tcctggggga ttttcagcgc 360
gtcacccagt gcattcaggt aactgcgttc cataaaatgg tcaatatcaa tagccgcgn 420
actaatnnac ncngggccna gcgcctttc 450

<210> 92
<211> 469
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature

42623-0044_seq listing

<222> (3)..(3)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (378)..(378)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (442)..(442)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (446)..(449)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (451)..(451)
<223> n is a, c, g, or t

<400> 92
cgnccggatc cgggatcata tgacaagatg tgtatccacc ttaacttaat gattttacc 60
aaaatcatta ggggattcat cagtgccac ggtctttga gcgtgacggc gatggagaaa 120
tccaccggcg ttgaggcgtc tattcaggtc aaaccgtctt acggtctgac cgatagcgaa 180
atcgcttcga ttagtcaaaga ctcaatgagc tatgccgagc aggacgtaaa agcccgaatg 240
ctggcagaac aaaaagtaga agcggcgcgt gtgctggaaa gtctgcacgg cgcgctggct 300
gctgatgccc cgctgttaag cgcccgagaa cgtcaggta ttgacgatgc tgccgctcac 360
ctgagtgaaag tggcgcangg cgatgatgtt gacgccatcg aacaagcgat taaaaacgta 420
gacaaacaaa cccaggatat cncccnnnnc ngtactagtc gacgcgtgg 469

<210> 93
<211> 212
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (134)..(143)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (167)..(167)

42623-0044_seq listing

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (170)..(175)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (177)..(180)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (182)..(188)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (190)..(195)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (198)..(199)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (201)..(203)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (205)..(209)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (211)..(211)

<223> n is a, c, g, or t

<400> 93

ngaaaaacgt ccggatccgg gatcatatga caagatgtgt atccacctta acttaatgat 60

ttttaccaaa atcattaggg gattcatcg ctccgcgccc tggttttaa cattaccac 120

cgcgcgcat atcnnnnnnn nnngtactag tcgacgcgtg gccaaantn nnnnnncnnnn 180

tnnnnnnnntn nnnnncgnnt nnngnnnnnc nc 212

<210> 94

<211> 290

<212> DNA

<213> Artificial

<220>

<223> partial gene with transposon insert

<220>

<221> misc_feature

42623-0044_seq listing

<222> (270)..(271)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (273)..(273)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (288)..(288)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (290)..(290)
<223> n is a, c, g, or t

<400> 94
aaaaaccgtt accggatccg ggatcatatg acaagatgtg tatccacctt aacttaatga 60
tttttaccaa aatcattagg ggattcatca gagttaagtg tgacagtgga gttaagtatg 120
ccagaggtac aaacagatca tccagagacg gcggagttaa gcaaaccaca gctacgcata 180
gtcgatctca acttattaac cgtttcgat gccgtgatgc aggagcaaaa cattactcgt 240
gccgctcatg ttctggaaat atcccccccn ncngtactag tcgacgcngn 290

<210> 95
<211> 269
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<400> 95
aaaaaccgtt accggatccg ggatcatatg acaagatgtg tatccacctt aacttaatga 60
tttttaccaa aatcattagg ggattcatca gagttaagtg tgacagtgga gttaagtatg 120
ccagaggtac aaacagatca tccagagacg gcggagttaa gcaaaccaca gctacgcata 180
gtcgatctca acttattaac cgtttcgat gccgtgatgc aggagcaaaa cattactcgt 240
gccgctcatg ttctggaaat atcccccc 269

<210> 96
<211> 404
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g, or t

42623-0044_seq listing

<400> 96
cncgccggac atccggatcc gggatcatat gacaagatgt gtatccacct taacttaatg 60
atttttacca aaatcattag gggattcatc aggtgacagt tagcgccc ggataatttt 120
cactctccag gtggctgtaa aagagatccg caagttcttc atcggataaaa tccggggcaa 180
tggtctcctt gtgataaaaag agctcggtca ttattgactg tgctttttc ggctgatgat 240
ctttgagata agccgatgca acccaatatt gcccccaggg cggaataatt tgccccgtct 300
tttttaatcg ctgatagtga gaaataacgt ctttataacg atcgcgagtt aataacgcgc 360
caagatgatc aacctgaata cgctggtaact gggcagtgcg gtct 404

<210> 97
<211> 291
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (99)..(99)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (131)..(131)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (154)..(154)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (156)..(156)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (162)..(162)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (204)..(204)
<223> n is a, c, g, or t

<400> 97
aaaaaccgtt accggatccg ggatcatatg acaagatgt tatccacctt aacttaatga 60
tttttaccaa aatcattagg ggattcatca ggagctggng cgtttctcc ccacggccag 120
tggcggtcac natagaccca gaaatagacg ccgnncnacaa tncacataat ggacataaaa 180

42623-0044_seq listing

aacggccaga agaaaacgaa cctnatcatc agttcacccga gtgaaagtac gctacgcata	240
gggttatgca taacaccaga cataatataa aaaacgatac gatgcgatta a	291
<210> 98	
<211> 400	
<212> DNA	
<213> Artificial	
<220>	
<223> partial gene with transposon insert	
<220>	
<221> misc_feature	
<222> (9)..(9)	
<223> n is a, c, g, or t	
<400> 98	
gagatacgnc cgatatccggg atcatatgac aagatgtgta tccaccttaa cttaatgatt	60
tttaccaaaa tcattagggg attcatcagt gctccaccct ggcccggatg ctggctttca	120
tgtattcgat gttgatggcc gttttgttct tgcgtggatg ctgtttcaag gttcttacct	180
tgccggggcg ctcggcgatc agccagtcca catccaccc tcgcgctgtg	240
gcgc(cccttg gtagccggca tcggctgaga caaattgctc ctctccatgc agcagattac	300
ccagctgatt gaggtcatgc tcgttggccg cggtgtgac caggctgtgg gtcaggccac	360
tcttggcatc gacaccaatg tggcccttca tgccaaagtg	400
<210> 99	
<211> 434	
<212> DNA	
<213> Artificial	
<220>	
<223> partial gene with transposon insert	
<220>	
<221> misc_feature	
<222> (3)..(3)	
<223> n is a, c, g, or t	
<220>	
<221> misc_feature	
<222> (145)..(146)	
<223> n is a, c, g, or t	
<220>	
<221> misc_feature	
<222> (148)..(148)	
<223> n is a, c, g, or t	
<220>	
<221> misc_feature	
<222> (150)..(150)	
<223> n is a, c, g, or t	

42623-0044_seq listing

```
<220>
<221> misc_feature
<222> (158)..(158)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (230)..(230)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (234)..(235)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (241)..(241)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (244)..(244)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (247)..(248)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (262)..(262)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (265)..(268)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (270)..(270)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (272)..(274)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (277)..(279)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (282)..(284)
<223> n is a, c, g, or t

<220>
<221> misc_feature
```

42623-0044_seq listing

```
<222> (287)..(288)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (290)..(290)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (292)..(293)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (295)..(295)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (303)..(303)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (309)..(311)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (315)..(316)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (318)..(318)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (323)..(323)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (326)..(326)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (330)..(330)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (333)..(333)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (336)..(336)
<223> n is a, c, g, or t
```

42623-0044_seq listing

```
<220>
<221> misc_feature
<222> (338)..(338)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (340)..(344)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (346)..(346)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (351)..(351)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (361)..(362)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (367)..(367)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (372)..(373)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (376)..(377)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (381)..(381)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (386)..(387)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (390)..(390)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (393)..(393)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (395)..(396)
```

42623-0044_seq listing

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (401)..(401)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (404)..(404)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (407)..(410)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (414)..(415)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (418)..(418)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (420)..(420)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (422)..(422)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (427)..(428)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (432)..(432)

<223> n is a, c, g, or t

<400> 99

cgnccgatcc gggatcatat gacaagatgt gtatccacct taacttaatg atttttacca 60

aaatcatttag gggattcatc aggatgaatt acggggcgatg acagagtcat tacctgaaaa 120

tgcatctacg caacaatatc ccacnnantn gtactagnng acgcgtggcc atcaacttgc 180

tgcccgcgatt gacgatgccca atttaacgcc agatattcgc gctgatattn ctannncgacg 240

ngcnggnnga cgctggcca angcnnncn tnnnctnnna annntgnncn gnncnctggc 300

tgntgtccnn nctgnnancg ccncanaacn tcntgncntn nnnnangctg ncgtccctta 360

nngaagnggc cnnggnnaat natgtnnacn ccntnnccaa ncgnntnnnn actnnacnan 420

cnacccnnga tntc 434

42623-0044_seq listing

<210> 100
<211> 250
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (156)..(157)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (161)..(161)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (188)..(189)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (192)..(194)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (198)..(199)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (206)..(206)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (215)..(215)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (221)..(221)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (231)..(231)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (236)..(245)
<223> n is a, c, g, or t

<220>
<221> misc_feature

42623-0044_seq listing

<222> (248)..(248)
<223> n is a, c, g, or t

<400> 100
cacggatccg ggatatatga caagatgtgt atccaccta acttaatgat ttttaccaaa 60
atcattaggg gattcatcg cgtaaattt gcatcgtaa tcgcggcagc aagttgatta 120
ttacgtaatg cctgcacgta ttctgtggga tatccnnccc ncccgacta gtcgacgcgt 180
ggccatgnna tnnnccgnna ttcatnctga tgacnccccg ncagttata natatnnnn 240
nnnnngtnct 250

<210> 101
<211> 458
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (162)..(162)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (187)..(189)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (197)..(197)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (200)..(200)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (204)..(204)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (208)..(209)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (214)..(216)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (219)..(219)
<223> n is a, c, g, or t

42623-0044_seq listing

```
<220>
<221> misc_feature
<222> (226)..(226)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (228)..(229)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (231)..(231)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (235)..(236)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (239)..(241)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (246)..(246)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (248)..(248)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (253)..(253)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (255)..(255)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (259)..(259)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (261)..(261)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (263)..(264)
<223> n is a, c, g, or t

<220>
<221> misc_feature
```

42623-0044_seq listing

<222> (267)..(268)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (273)..(273)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (278)..(280)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (283)..(285)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (288)..(288)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (293)..(293)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (303)..(303)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (306)..(307)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (313)..(316)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (318)..(318)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (322)..(322)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (327)..(327)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (335)..(336)
<223> n is a, c, g, or t

42623-0044_seq listing

```
<220>
<221> misc_feature
<222> (341)..(341)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (350)..(351)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (353)..(355)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (357)..(358)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (362)..(362)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (367)..(367)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (372)..(372)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (374)..(375)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (377)..(377)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (380)..(380)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (382)..(382)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (385)..(386)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (388)..(388)
```

42623-0044_seq listing

<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (390)..(392)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (394)..(394)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (397)..(397)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (399)..(399)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (404)..(409)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (414)..(415)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (419)..(419)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (421)..(421)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (431)..(431)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (433)..(433)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (435)..(437)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (442)..(442)
<223> n is a, c, g, or t

<220>

42623-0044_seq listing

<221> misc_feature
<222> (445)..(446)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (448)..(448)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (452)..(452)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (456)..(456)
<223> n is a, c, g, or t

<400> 101
aacgcacccgg atccgggatc attgacaaga tgtgtatcca ccttaactta atgattttta 60
ccaaaatcat taggggattc atcagactga cgcgccccca aaaagggcgg attgtcctca 120
atgggcgggt actaaatgtat gccaaaaaag gtatctgcct tnccgtacta gtcgacgcgt 180
ggccacnnnt tcattcnccn ctanctcnna agtnnnccna ctccggnncn naccnnccnn 240
nccccntngc agncntgtnc ncnnacnnng gcnaaccnnn gannncgnct ccnccgcnn 300
ctntcnncac cttnnnnangg cntaccngcc cctcnngctc ngttaccttn nttnnntnncc 360
gnccccnctc ananncnccn tnacnngncn nnccnatncnt cgcnnnnnna gtannccnc 420
ntccccccac ncncnnncgg tnttnncnct tnaganct 458

<210> 102
<211> 455
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (5)..(5)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (150)..(150)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (154)..(154)
<223> n is a, c, g, or t

<220>
<221> misc_feature

42623-0044_seq listing

<222> (164)..(164)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (174)..(174)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (191)..(191)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (197)..(197)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (202)..(202)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (205)..(207)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (212)..(213)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (224)..(224)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (227)..(227)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (229)..(229)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (232)..(233)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (242)..(242)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (252)..(252)
<223> n is a, c, g, or t

42623-0044_seq listing

```
<220>
<221> misc_feature
<222> (254)..(255)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (262)..(262)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (266)..(266)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (269)..(269)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (274)..(274)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (279)..(280)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (286)..(286)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (296)..(297)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (305)..(305)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (313)..(313)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (321)..(321)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (328)..(328)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (331)..(331)
```

42623-0044_seq listing

<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (335)..(335)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (337)..(337)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (343)..(343)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (345)..(345)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (348)..(348)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (350)..(350)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (353)..(353)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (363)..(363)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (370)..(370)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (373)..(373)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (375)..(375)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (381)..(383)
<223> n is a, c, g, or t

<220>

42623-0044_seq listing

```
<221> misc_feature
<222> (386)..(386)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (392)..(392)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (401)..(401)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (408)..(408)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (411)..(411)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (413)..(414)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (417)..(417)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (420)..(420)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (422)..(422)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (427)..(427)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (430)..(432)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (435)..(435)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (439)..(439)
<223> n is a, c, g, or t
```

42623-0044_seq listing

<220>
<221> misc_feature
<222> (442)..(443)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (450)..(451)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (455)..(455)
<223> n is a, c, g, or t

<400> 102
aacgnaccgg atccgggatc atatgacaag atgtgtatcc accittaactt aatgatttt 60
accaaaaatca ttaggggatt catcagactg acgcgccccg aaaaagggcg gattgtcctc 120
aatgggcggg tactaaatga tgccgaaaan ggtntcttgc ctgncccgt a ctantcgacg 180
cgtggccaac naacctnctt cntannntcg cnnttcccc ttcngcncnt cnncactcc 240
cngctgctcc tncnncccttc cncgcncnt accntcgtnn cttantcca cctgcncta 300
tcccncggcc cgncctcccg ncccccncn ncaantngtt cangnacngn ccncctcgc 360
ccnagcgctn ccngngccag nnctnttca tntccctccc ngatccantc ncnnccntn 420
cnctctnacn nnccngtcnc tnnccccc tn 455
ttan

<210> 103
<211> 300
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (158)..(158)
<223> n is a, c, g, or t

<400> 103
cncgaccggg atatatgaca agatgtgtat ccaccta ac ttaatgattt ttacaaaaat 60
cattagggga ttcatcaggg tttcgctgtc cttttgtgct ttgttatgca ttttctgcgc 120
agattcactt tgcgaggcaa tatccatggc atcaaaaanaa tggcaactac ggcacgtgc 180
agagtca gtttttaatt cttccatac ttttcggcc atttcctggc gatgagctt 240
gaacttatcg tcactgtcta tttgccgct aacaaattca tgataaatat ctttagatgc 300

42623-0044_seq listing

<210> 104
<211> 527
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (5)..(6)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (86)..(86)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (129)..(129)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (162)..(163)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (183)..(184)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (191)..(191)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (200)..(200)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (207)..(208)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (211)..(212)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (223)..(223)
<223> n is a, c, g, or t

<220>
<221> misc_feature

42623-0044_seq listing

```
<222> (225)..(225)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (229)..(229)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (231)..(231)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (237)..(237)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (239)..(241)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (247)..(247)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (250)..(250)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (253)..(254)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (256)..(256)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (264)..(265)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (269)..(272)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (280)..(281)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (287)..(287)
<223> n is a, c, g, or t
```

42623-0044_seq listing

```
<220>
<221> misc_feature
<222> (291)..(291)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (296)..(297)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (304)..(304)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (311)..(311)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (319)..(319)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (322)..(322)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (332)..(332)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (337)..(338)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (343)..(343)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (363)..(363)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (369)..(369)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (372)..(372)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (374)..(374)
```

42623-0044_seq listing

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (378)..(378)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (388)..(388)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (397)..(397)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (403)..(404)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (408)..(410)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (418)..(418)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (425)..(428)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (433)..(435)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (437)..(437)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (445)..(445)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (448)..(448)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (455)..(455)

<223> n is a, c, g, or t

<220>

42623-0044_seq listing

```
<221> misc_feature
<222> (457)..(457)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (463)..(463)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (465)..(465)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (468)..(468)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (471)..(473)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (477)..(477)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (482)..(482)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (485)..(485)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (488)..(489)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (491)..(491)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (495)..(496)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (498)..(498)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (501)..(501)
<223> n is a, c, g, or t
```

42623-0044_seq listing

<220>
<221> misc_feature
<222> (503)..(503)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (505)..(505)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (507)..(507)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (509)..(509)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (511)..(511)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (514)..(514)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (525)..(525)
<223> n is a, c, g, or t

<400> 104
aaacnnccgg atccgggatc atatgacaag atgtgtatcc accttaactt aatgattttt 60
accaaaatca ttaggggatt catcanggtt ttgacccatg acagataaac gcaaagatgg 120
ctcatgcana ttgctgtatt gctcttttg cgccaaaagc cnncatgaag tgcgccagct 180
gannagccgg nccatccctn tatatcnnc nnccctgtac ctngncggnc ncgtggncnn 240
nctccntcn tnnncntctc cccnntctnn nncccctctn ncgcggnccc nctgannnc 300
ctcncttctt ntacctccnc gngcctctac cnctcggncc tcncccccca ctccttatt 360
ccncctccnt cntntccntc tccacctntc cttccnacc gcnnatnnn acgtctcnnt 420
ccctnnnncc acnnntnatic cttcngcncc cctcngngcg aancntcnct nnctancgg 480
cncgntgnnc ntgcnnncna ntnancncnc nctnattgag tgcngnt 527

<210> 105
<211> 233
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

42623-0044_seq listing

<220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (204)..(206)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (208)..(213)
<223> n is a, c, g, or t

<400> 105
cncgatccgg gatattgaca agatgtgtat ccaccttaac ttaatgattt ttaccaaaat 60
cattagggga ttcatcaggt gacgacatcc gtgccataat gttttgccca ggaggcacca 120
acacctgcgc tgaatatttg ctcccagcta ttttcatagc ttcgccataa caaatggctt 180
gcctcaaatg ccggaacaat atcnnncnnn nnngtactag tcgacgcgtg cca 233

<210> 106
<211> 492
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<400> 106
aaaccaccg gatccggat catatgacaa gatgtgtatc cacccttaact taatgatttt 60
taccaaaaatc attagggat tcatcagagt tttatctgcg tctggcgcaa cgcatatgc 120
atctgttcag tacgcgtacc tcttccggca ttttgtatga agtggatgct cgactgcgtc 180
cgtccggggc ggcgggaatg ctggtgacat ccgcagaagc atttgccgat tatcagaaaa 240
acgaggcctg gacgtggaa catcaggcgc tggtgcgtgc gcgtgttagt tacggcgatc 300
cgcaagtcac cgcgacttt gacgcagtgc gtcgcgagat tatgacgctg ccgcgtgaag 360
gtaaaactct gcaaacggaa gtgcggaaa tgcgcgagaa aatgcgcgtc catctcgca 420
ataaacatcg cgatcgctt gatataaag ctgatgaagg gggaaattacc gatatcgaat 480
ttattaccca at 492

<210> 107
<211> 402
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

42623-0044_seq listing

<220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (4)..(5)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (14)..(14)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (97)..(97)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (103)..(104)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (106)..(106)
<223> n is a, c, g, or t

<400> 107
gncnnctaaa aacnttaccg gatccggat catatgacaa gatgtgtatc caccttaact 60
taatgatttt taccaaaatc attagggat tcatcanggc cgnnanggtg tggcgctgcc 120
cgctgtatgt gccaaaacag ccgagcaccc taaaacgcct gttgcattctg ggcagtttg 180
ccgtcagcag tttcttcg ctgatggcgc aacgtcgctg gaagccggat cgcattattg 240
gcgtggtgcc aacgctgttt tgccgcgggaatgcgcct gctggcgaaa ctctctggtg 300
cgcgtaccgt gctgcattatt caggattacg aagtggacgc catgctgggg ctgggccttg 360
ccggaaaagg caaaggcggc aaagtggcac agctggcaac gg 402

<210> 108
<211> 483
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (3)..(3)
<223> n is a, c, g, or t

<220>
<221> misc_feature

42623-0044_seq listing

<222> (194)..(194)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (203)..(203)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (212)..(212)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (215)..(215)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (217)..(218)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (223)..(223)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (286)..(286)
<223> n is a, c, g, or t

<400> 108
cgnccggatc cgggatcata tgacaagatg tgtatccacc ttaacttaat gatttttacc 60
aaaatcatta ggggattcat cagcgcatct ggtcttcacc atatttgatt gtcgatttcc 120
tacccagtct gtattacgaa caaaatacag aacacgatac cccatactac aaccctataa 180
aaacgttcga tatngttccg gcnttgctg cncgncnngt ggnctggcga agctatgaaa 240
atagctggga gcaaataattc agcgcagggtg ttggtgccctc ctggcnaaaa cattatggca 300
cgatgtcgt cacccaactc ggctacgggc aacgcattag ttggaatgac gtgattgatg 360
ctggcgcaac gctacgctgg gaaaaacgac cttatgacgg tgacagagaa cacaacttat 420
acgttgaatt cgatatgaca ttcagattt aaggataaat atgttacgta atggaaataa 480
ata 483

<210> 109
<211> 455
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>

42623-0044_seq listing

```
<221> misc_feature
<222> (4)..(4)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (115)..(115)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (234)..(234)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (238)..(238)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (240)..(240)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (243)..(243)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (265)..(265)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (287)..(287)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (292)..(292)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (296)..(296)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (301)..(301)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (315)..(315)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (323)..(323)
<223> n is a, c, g, or t
```

42623-0044_seq listing

```
<220>
<221> misc_feature
<222> (326)..(326)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (330)..(330)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (335)..(335)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (337)..(337)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (340)..(341)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (350)..(350)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (352)..(352)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (357)..(359)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (362)..(362)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (369)..(369)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (372)..(372)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (382)..(382)
<223> n is a, c, g, or t

<220>
<221> misc_feature
```

42623-0044_seq listing

<222> (384)..(384)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (387)..(387)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (394)..(394)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (399)..(399)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (419)..(419)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (421)..(421)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (423)..(423)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (434)..(435)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (441)..(441)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (449)..(449)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (454)..(454)
<223> n is a, c, g, or t

<400> 109
acgnccgatc cgggatcata tgacaagatg tgtatccacc ttaacttaat gattttacc 60
aaaatcatta ggggattcat cagcacccgt a cttacgcccgc tcattttgat accancgaac 120
ataaggctga gcactgttgc ctgtAACACC attttcatt gcccgtaatg gaacgcggtg 180
agagaggcgt tccagttgcg aaccaatacg ccagttatca ttaaaatcat atcngccnng 240
ccngtactag tcgacgcgtg gccanAAatt gaaaactggt ttgccanaat tntctngatc 300

42623-0044_seq listing

ncctaaaaag ctatnactgg acncgtatn atggntntgn nttatctggn anggggnnnnc	360
anaaaaaatnc gntgccaatg gntnatncaa ttgnccatna aattaaaaac atcccttang	420
ntnaaagaca aatnnatttt ntaattcang ggcna	455

<210> 110
<211> 468
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (1)..(2)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (4)..(4)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (18)..(18)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (42)..(42)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (88)..(88)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (101)..(101)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (125)..(125)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (176)..(176)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (309)..(309)
<223> n is a, c, g, or t

<220>

42623-0044_seq listing

```
<221> misc_feature
<222> (328)..(329)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (332)..(332)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (347)..(347)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (359)..(360)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (364)..(364)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (367)..(367)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (372)..(373)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (375)..(375)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (379)..(379)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (382)..(382)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (389)..(389)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (391)..(391)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (393)..(393)
<223> n is a, c, g, or t
```

42623-0044_seq listing

```
<220>
<221> misc_feature
<222> (398)..(398)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (404)..(405)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (408)..(409)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (414)..(414)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (416)..(416)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (418)..(418)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (421)..(421)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (425)..(425)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (427)..(427)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (431)..(431)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (435)..(435)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (438)..(438)
<223> n is a, c, g, or t

<220>
<221> misc_feature
```

42623-0044_seq listing

<222> (440)..(440)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (444)..(445)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (447)..(447)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (450)..(452)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (454)..(455)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (458)..(458)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (461)..(462)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (464)..(465)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (468)..(468)
<223> n is a, c, g, or t

<400> 110						
nngnaaacca	gccggacntc	ccggatccgg	gatcatatga	cnagatgtgt	atccaccta	60
acttaatgat	ttttaccaa	aa atcattangg	gattcatcag	ncagatgcgt	tcctgaccct	120
caagngagac	ttcatgacgc	tggttactgt	cggaaaaatc	agtgaaagcc	cagganacac	180
cgtacttacg	ccgctcattt	tgataccagc	gaacataagc	ctgagcactg	ttgcctgtaa	240
caccatttt	cattgcccgt	aatggaacgc	ggtgagagag	gcgttccagt	tgcgaaccaa	300
tacgccagnt	atcattaaaa	tcatatcnnc	cngaagagga	ctagtcnacg	cgtggccann	360
acancncac	tnntnaacnt	gnngctacna	ntntaccngc	ccannagnnt	tacntnantt	420
ncgcncncct	nccantcncn	cccnhangtn	nncnnaanct	nnannctn		468

<210> 111
<211> 313

42623-0044_seq listing

<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (1)..(2)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (5)..(5)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (18)..(18)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (168)..(168)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (170)..(172)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (175)..(177)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (201)..(201)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (205)..(205)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (209)..(209)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (214)..(217)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (222)..(222)
<223> n is a, c, g, or t

<220>

42623-0044_seq listing

```
<221> misc_feature
<222> (226)..(226)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (228)..(228)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (233)..(233)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (235)..(235)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (238)..(238)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (243)..(243)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (246)..(246)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (252)..(252)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (256)..(256)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (267)..(267)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (269)..(270)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (273)..(273)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (276)..(276)
<223> n is a, c, g, or t
```

42623-0044_seq listing

<220>
<221> misc_feature
<222> (280)..(281)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (288)..(288)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (296)..(296)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (303)..(303)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (305)..(305)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (308)..(309)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (312)..(312)
<223> n is a, c, g, or t

<400> 111
nnaanatacg gttccggntc gggatcatat gacaagatgt gtatccacct taacttaatg 60
atttttacca aaatcatttag gggattcatc agatggaagc attaaccgcg gcctccgtgg 120
cggcgctgac catttatgac atgtcaaag cggtgcaaaa agatatcn cn nnccnnngta 180
ctagtcgacg cgtggccaaa natcngggnt ctcnnnnntgc tngctncnaa tcn antgnac 240
ccnctnaacc ctttcnagct aaacatntnn atntgnaacn nataaacnca ggacgnact 300
atngngtnna cnt 313

<210> 112
<211> 398
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (3)..(4)
<223> n is a, c, g, or t

42623-0044_seq listing

<220>
<221> misc_feature
<222> (7)..(7)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (11)..(11)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (25)..(25)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (28)..(28)
<223> n is a, c, g, or t

<400> 112
cgnnganacg nccgaatccg gatantanac aagatgtgta tcccccttaac ttaatgattt 60
ttacccaaat cattagggga ttcatcaggg cttagcgaa agtctgagcg aaattcgaca 120
aaaccggag caatttaaac agtgggcccgtttaaaagt cgtgcgttaa ctgacttcac 180
tttagaactt agtgcgcgcaaaaagccat tcgcggtcca catattaaaa ctgcacgaaa 240
tattttgca cttccggtaa tacaacctga aagtgaagcc tggtttgcac agaattatgc 300
tgatttccta aaaagctatg actggaccgc tattatggct atgccttatac tgaaagggtgt 360
cgcagaaaaa tcggctgacc aatggtaat acaattga 398

<210> 113
<211> 300
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, or t

<400> 113
nacggatccg ggatatatga caagatgtgt atccaccta acttaatgat ttttaccaa 60
atcattaggg gattcatcag tatctggtgt gcattgtatgg cgatgcgtta ttagaccgc 120
atgcggcggc atatattgtg gaaccgatgt tgtacaaccc gcgtgtgggt gccgtaaccg 180
gtaatcctcg tattcgaaca cgttctaccc tggtgggtaa aattcagggtt ggcgagtt 240
cctcaattat tggtttgcac aagcgaaccc agcgtatcta tgaaacgta tttaccgttt 300

42623-0044_seq listing

<210> 114
<211> 300
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, or t

<400> 114
ncgatccggg atcattgaca agatgtgtat ccaccttaac ttaatgattt ttaccaaaat 60
cattagggga ttcatcgata tctggtgtgc attgatggcg atgcgttatt agaccgcgat 120
gcggcggcat atattgtgga accgatgttg tacaaccgc gtgtgggtgc cgtaaccggt 180
aatccctcgta ttcaaacacg ttctaccctg gtgggtaaaa ttcaaggttgg cgagtattcc 240
tcaattattt gtttcatcaa gcgaacccag cgtatctatg gaaacgtatt taccgtttcc 300

<210> 115
<211> 453
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (5)..(5)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (128)..(129)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (154)..(154)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (159)..(160)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (164)..(165)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (178)..(179)

42623-0044_seq listing

```
<223> n is a, c, g, or t  
<220>  
<221> misc_feature  
<222> (181)..(181)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (183)..(183)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (195)..(195)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (202)..(202)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (206)..(206)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (211)..(211)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (213)..(213)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (215)..(215)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (222)..(222)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (226)..(226)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (229)..(230)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (232)..(235)  
<223> n is a, c, g, or t  
  
<220>
```

42623-0044_seq listing

```
<221> misc_feature
<222> (238)..(238)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (242)..(242)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (249)..(249)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (253)..(253)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (263)..(263)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (266)..(266)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (279)..(279)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (282)..(282)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (292)..(292)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (294)..(294)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (296)..(297)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (300)..(301)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (304)..(304)
<223> n is a, c, g, or t
```

42623-0044_seq listing

```
<220>
<221> misc_feature
<222> (308)..(308)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (317)..(318)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (330)..(330)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (333)..(333)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (338)..(338)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (342)..(342)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (344)..(344)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (352)..(352)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (354)..(354)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (356)..(356)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (369)..(369)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (371)..(371)
<223> n is a, c, g, or t

<220>
<221> misc_feature
```

42623-0044_seq listing

```
<222> (374)..(374)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (377)..(377)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (379)..(380)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (382)..(382)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (384)..(387)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (396)..(396)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (412)..(412)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (415)..(415)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (425)..(425)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (427)..(427)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (430)..(430)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (437)..(438)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (446)..(446)
<223> n is a, c, g, or t
```

42623-0044_seq listing

<220>
<221> misc_feature
<222> (448)..(448)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (450)..(452)
<223> n is a, c, g, or t

<400> 115
aaacntaccg gatccgggat catatgacaa gatgtgtatc cacccttaact taatgatttt 60
tacccaaaatc attagggat tcatacgccg cgagcaggcg atttccaccg aggcttatat 120
cccccccnnc cgtactagtc gacgcgtggc caantatcnn gatnncccg cctgtcannc 180
nanccccccc tgcgnccccct cntccnactc nancntagac cngccnctnn tnnnnncanct 240
cncggcgcnt gtnccaacct gcncncccc gtcctgccna cnctctccac gncncnnccn 300
nttnccnngc cctgccnnct ctcccccccn ccnccacnct cngnccctca gncncngtcc 360
cgctcggtnc nccnacncnn cncnnnnnagc tctccnngtta cctcaccgat gntcncccc 420
ctcgngngcn caccccnnaag cagccncntr nnc 453

<210> 116
<211> 268
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (6)..(6)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (89)..(89)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (104)..(104)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (107)..(107)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (109)..(111)
<223> n is a, c, g, or t

<220>

42623-0044_seq listing

```
<221> misc_feature
<222> (116)..(116)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (121)..(121)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (134)..(134)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (140)..(140)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (144)..(145)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (151)..(151)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (164)..(164)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (166)..(168)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (172)..(174)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (180)..(181)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (183)..(184)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (186)..(186)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (189)..(191)
<223> n is a, c, g, or t
```

42623-0044_seq listing

```
<220>
<221> misc_feature
<222> (194)..(194)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (196)..(196)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (206)..(206)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (208)..(209)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (211)..(211)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (213)..(213)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (218)..(218)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (221)..(221)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (223)..(225)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (228)..(228)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (235)..(238)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (243)..(243)
<223> n is a, c, g, or t

<220>
<221> misc_feature
```

42623-0044_seq listing

<222> (245)..(245)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (248)..(249)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (251)..(251)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (253)..(253)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (258)..(258)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (260)..(260)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (264)..(264)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (267)..(267)
<223> n is a, c, g, or t

<400> 116						
aacggncgg	atccgggatc	atatgacaag	atgtgtatcc	accttaactt	aatgattttt	60
accaaaaatca	ttaggggatt	catcagagt	aagcgtgaca	gtgntantnn	nctacngcca	120
naggtacaaa	caanttcatn	catnnngccgc	ngaagatttc	cttnnnnnag	cnnncagccn	180
ngnnntttnn	ncantntcct	aaccctnnnc	ncntggtngt	nannncangt	tcatnnnnca	240
ttnantgnnt	ntntcgantn	cgcntcnc				268

<210> 117
<211> 263
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g, or t

42623-0044_seq listing

```
<220>
<221> misc_feature
<222> (110)..(110)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (118)..(118)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (144)..(144)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (173)..(174)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (183)..(183)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (210)..(210)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (212)..(212)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (214)..(214)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (219)..(219)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (243)..(255)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (257)..(262)
<223> n is a, c, g, or t

<400> 117
gnaaagcccg ccggacatcc cggatccggg atcatatgac aagatgtgta tccacctaa      60
cttaatgatt ttacaaaaa tcattagggg attcatcaga gccggaagtn aacgcggngc      120
tggagaagat gaaaaccttc tcanaagcga ttatccgg tgagtggaaa ggnnataccg      180
```

42623-0044_seq listing

gcnaagcaat cactgacgta gtgaatatcn cncncccnng tactagtcga cgcgtggcca	240
cannnnnnnn nnnnnncnnnn nnc	263

<210> 118
<211> 390
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (127)..(127)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (190)..(190)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (195)..(195)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (200)..(200)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (205)..(205)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (212)..(212)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (221)..(221)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (223)..(223)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (228)..(229)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (234)..(235)
<223> n is a, c, g, or t

42623-0044_seq listing

```
<220>
<221> misc_feature
<222> (240)..(240)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (245)..(245)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (247)..(247)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (249)..(251)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (256)..(256)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (258)..(258)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (260)..(260)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (263)..(263)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (265)..(265)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (268)..(268)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (270)..(273)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (275)..(275)
<223> n is a, c, g, or t

<220>
<221> misc_feature
```

42623-0044_seq listing

```
<222> (277)..(277)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (280)..(280)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (287)..(288)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (293)..(294)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (297)..(299)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (302)..(302)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (304)..(307)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (316)..(318)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (321)..(323)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (327)..(327)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (329)..(329)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (332)..(333)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (337)..(337)
<223> n is a, c, g, or t
```

42623-0044_seq listing

```
<220>
<221> misc_feature
<222> (342)..(342)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (344)..(344)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (348)..(349)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (352)..(352)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (355)..(356)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (358)..(358)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (362)..(363)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (368)..(370)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (374)..(375)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (378)..(378)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (380)..(380)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (382)..(383)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (387)..(388)
```

42623-0044_seq listing

<223> n is a, c, g, or t

<400> 118

acgaccggat ccgggatcat atgacaagat gtgtatccac cttaacttaa tgattttac	60
caaaatcatt aggggattca tcagtgcctcg ccgccttctt tggactgcg gaaggtaaac	120
agcagcngtt ttctggcat ggactcacgg agaattttg ctgccgccc gacagactcc	180
acattggagn ggtangcatn ctggncaca cnccattcca nantatcnnc tttnnctgn	240
actantnann nctcgnantn ttncntcn nnnncncan ttccctnncc tttnacnnnc	300
gngnnnnntg ttgaannntt nnacancnc annttcnccc cnctctnnt anatnngncc	360
cnngcctnnn agtnntantn cnnttnntc	390

<210> 119

<211> 392

<212> DNA

<213> Artificial

<220>

<223> partial gene with transposon insert

<220>

<221> misc_feature

<222> (84)..(84)

<223> n is a, c, g, or t

<400> 119

cgtaccggat ccgggatcat atgacaagat gtgtatccac cttaacttaa tgattttac	60
caaaatcatt aggggattca tcangggccc ggtaccgttg gctgatattt ccgaacgtca	120
ggaaatttcc ctttcttatac tggaacaact gttttccgt ctgcgtaaaa atggtctggt	180
ttccagcgta cgtggaccag gcgggttta tctgttaggc aaagatgcca gcagcatcgc	240
cgttggcgaa gtaatttagcg ccgttgacga atctgttagat gccaccgtt gtcaggtaa	300
aggcggctgc cagggcggcg ataaatgcct gacccacgca ctgtggcgtg atttgagcga	360
ccgtctcacc gttttctca acaacattac tt	392

<210> 120

<211> 451

<212> DNA

<213> Artificial

<220>

<223> partial gene with transposon insert

<220>

<221> misc_feature

<222> (3)..(3)

<223> n is a, c, g, or t

<400> 120

42623-0044_seq listing

cgnccggatc cgggatcata tgacaagatg tgtatccacc ttaacttaat gattttacc	60
aaaatcatta ggggattcat cagggctta gcgggagtct gagcgaaatt cgacaaaacc	120
cggagcaatt taaacagtgg gcccgttta aaagtcgtgc gttaactgac ttcaacttag	180
aacttagtgc gcgcgtaaaa gccattcgcg gtccacatat taaaactgca cgaaatattt	240
ttgcacttcc ggtaatacaa cctgaaagtg aagcctggtt tgcacagaat tatgctgatt	300
tcctaaaaag ctatgactgg accgctatta tggctatgcc ttatctggaa ggtgtcgcag	360
aaaaatcggc tgaccaatgg ttaatacaat tgaccaatca aattaaaaac atccctcagg	420
ctaaagacaa atctatTTTA gaattacagg c	451

<210> 121
<211> 300
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (8)..(8)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (270)..(271)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (273)..(276)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (300)..(300)
<223> n is a, c, g, or t

<400> 121
ncaacgtncc ggatccggga tcatatgaca agatgttat ccccttaact taatgatttt 60
taccaaaaatc attagggat tcatcagggt tatgctgact taattgctcc agcagcattt 120
cgtgggtgga ttcaagcag cgaagatgaa tgggctgcc ttctaccact gcggcgtaa 180
gtacgctact gaccaggcgt ttggaaagtg catcagccac gccaacgtca aacaataaat 240
tggattcttt gcgatagttc acaatatccn ncnnnnccgt actagtcgac gcgtggccan 300

42623-0044_seq listing

<210> 122
<211> 393
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (5)..(5)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (121)..(121)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (139)..(139)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (149)..(149)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (223)..(223)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (262)..(262)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (264)..(267)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (270)..(271)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (273)..(273)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (293)..(293)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (298)..(299)
<223> n is a, c, g, or t

42623-0044_seq listing

```
<220>
<221> misc_feature
<222> (304)..(304)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (307)..(309)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (313)..(316)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (323)..(324)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (336)..(336)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (347)..(347)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (356)..(358)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (364)..(365)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (367)..(367)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (369)..(370)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (374)..(375)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (377)..(378)
<223> n is a, c, g, or t

<220>
<221> misc_feature
```

42623-0044_seq listing

<222> (382)..(383)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (385)..(385)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (393)..(393)
<223> n is a, c, g, or t

<400> 122
aaacncaccg gatccggat catatgacaa gatgtgtatc caccttaact taatgattt 60
taccaaaaatc attagggat tcatacgagt taagtgtgac aagtggagtt aagtatgcc 120
naggtacaaa cagatcatnc agagacggng gagttaagca aaccacagct acagcatggt 180
cgatctcaac ttattaaccg tttcgatgc cgtgatgcag gancaaaca ttactcgtgc 240
cgctcatgtt ctggaaatat cncnnnngcn ngnactagtt cgacgcgtgg ccncatanna 300
tgtntcnnnt tcnnnnctct tcnnttgctt cccttncccc tcttccngcc ccccanncg 360
tctnnntntnn atcnngnnct tnnncntacga ctn 393

<210> 123
<211> 331
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (7)..(7)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (9)..(9)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (16)..(16)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (33)..(33)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (60)..(60)
<223> n is a, c, g, or t

42623-0044_seq listing

```
<220>
<221> misc_feature
<222> (69)..(69)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (88)..(88)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (173)..(173)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (193)..(193)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (203)..(203)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (236)..(236)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (244)..(244)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (265)..(266)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (269)..(270)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (275)..(275)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (282)..(282)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (284)..(284)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (295)..(296)
```

42623-0044_seq listing

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (298)..(298)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (300)..(301)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (304)..(306)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (309)..(309)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (311)..(311)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (318)..(318)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (320)..(320)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (326)..(328)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (331)..(331)

<223> n is a, c, g, or t

<400> 123

aaaccncntng gatccngcat catatgacaa gangttgtat ccaccttaac ttaatgattn 60

ttaccaaant cattagggga ttcatcanag ttaagtgtga cagtggagtt aagtatgcc 120

gaggtacaaa cagatcatcc agagacggtg gagttaagca aaccacagct acngcatggt 180

cgatctcaac ttnttaaccg ttntcgatgc cgtgatgcag gagcaaaaca ttactncgtg 240

ccgntcatgt tctggataa tcccnnngnn acgtntcagt cnangcgtgg ccaannngtn 300

nggnnnctna ntcacagnan cttnannngt n 331

<210> 124

<211> 298

42623-0044_seq listing

<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (4)..(4)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (13)..(13)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (251)..(251)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (254)..(254)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (276)..(276)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (280)..(280)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (283)..(286)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (291)..(291)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (293)..(293)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (295)..(296)
<223> n is a, c, g, or t

<400> 124
agcncgccgg acntcccgga tcgggatcat atgacaagat gtgtatccac cttaactaa 60
tgattttac caaaatcatt aggggattca tcagtcggtt gttaagcaga aattaatatc 120
gtttacttta accaccgcag cacaatttagc taattttacg gatgcagaac tcacgctggc 180

42623-0044_seq listing

gggacgtttt tattgcgtca gggttgacat ccgttttgt atccagtaac tctaaaagca 240
tatcgccccc nccngtacta gtcgacgcgt ggccanaacn cgnnnntcca ntntnncc 298

<210> 125
<211> 411
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (5)..(5)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (7)..(7)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (13)..(13)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (105)..(105)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (108)..(108)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (111)..(112)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (117)..(118)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (126)..(126)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (130)..(130)

42623-0044_seq listing

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (134)..(134)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (136)..(136)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (142)..(142)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (144)..(144)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (148)..(150)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (159)..(159)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (163)..(163)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (166)..(166)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (187)..(187)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (195)..(195)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (227)..(227)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (318)..(318)

<223> n is a, c, g, or t

<220>

42623-0044_seq listing

<221> misc_feature
<222> (377)..(379)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (383)..(383)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (386)..(386)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (392)..(392)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (394)..(394)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (403)..(403)
<223> n is a, c, g, or t

<400> 125
gnaangnaaa acncgccgga catcccgat ccgggatcat atgacaagat gtgtatccac 60
cttaacttaa tgattttac caaaatcatt aggggattca tcagnacngc nnattgnnc 120
cacggnggan taantngccc cngrttgnnn tctcgctgnt aanganaaat aacgtctta 180
taacgancgc gagtnaataa cgcgccaaga tgatcaacct gaatacnctg gtactggca 240
gtgcggtctg gtttatcggt ccacagaatt tctaattgcag cgtattggc gagggcgcga 300
tcggcaatgg cataacgntc actttcactg cgcgtaggca taaacgacag tctgaccagt 360
tcggcatgaa tatcagnnnnt tgntgnacta gncnacgcgt ggncaaaca t 411

<210> 126
<211> 388
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (3)..(3)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (175)..(175)
<223> n is a, c, g, or t

42623-0044_seq listing

```
<220>
<221> misc_feature
<222> (178)..(178)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (180)..(180)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (185)..(185)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (188)..(188)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (192)..(192)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (276)..(276)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (307)..(307)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (310)..(310)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (312)..(312)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (315)..(316)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (318)..(318)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (326)..(326)
<223> n is a, c, g, or t

<220>
<221> misc_feature
```

42623-0044_seq listing

```
<222> (328)..(328)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (330)..(330)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (332)..(333)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (337)..(337)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (339)..(339)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (342)..(342)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (345)..(345)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (352)..(352)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (354)..(354)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (358)..(358)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (360)..(361)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (363)..(364)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (371)..(372)
<223> n is a, c, g, or t
```

42623-0044_seq listing

<220>
<221> misc_feature
<222> (378)..(379)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (384)..(384)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (387)..(387)
<223> n is a, c, g, or t

<400> 126
cgnccggatc cgggatcata tgacaagatg tgtatccacc ttaacttaat gattttacc 60
aaaatcatta ggggattcat cagagcttaa taccggcatc cacgcataga tgtttacacc 120
tgagcgggta cgtaattgcc aggcaacccg actaaaaata tctgcttca ttggncnan 180
acaancngg anccagacct ctgtgaccag cccatcacca tcgggatcag caaatgcctg 240
caaatacacg gttgatattt gcatacttt cccccncgta cttagtcgacg cgtggccaca 300
ttacttntan tntannantg gatccnантн anncggnnt anctngcctt gnangggngn 360
nannattatc nnctgccnnnc gacnaant 388

<210> 127
<211> 410
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (4)..(5)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (17)..(17)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (317)..(317)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (339)..(339)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (343)..(343)

42623-0044_seq listing

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (356)..(356)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (360)..(360)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (362)..(362)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (367)..(367)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (370)..(370)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (380)..(381)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (383)..(385)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (389)..(389)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (399)..(399)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (410)..(410)

<223> n is a, c, g, or t

<400> 127

tttnngaaac acgccgnaca tcccgatcc gggatcatat gacaagatgt gtatccacct 60

taacttaatg attttacca aaaatcatta ggggattcat cagtggatta tgcggttgat 120

aaaaaagcga tcgatacagc tacgcgtcg acactgctcg gcaatgcct ggtcgttgta 180

gcaccgaaag ccagcgtgca gaaagatttc accatcgaca gcaaaaccaa ctggacttca 240

ctgctgaatg gcggtcgcct ggcgggttggc gatccggaac atgttcccgc tggcatttat 300

42623-0044_seq listing

gcaaaagaag cactgcnaaa actggcgca tggataacnc tcnctccgaa aatggnccn	360
cntaagntgn tcctagggn ncnnncgcng gtcaccacnt aatcgaaccn	410

<210> 128
<211> 305
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (11)..(12)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (103)..(103)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (107)..(107)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (159)..(159)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (204)..(204)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (211)..(211)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (213)..(216)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (218)..(218)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (226)..(226)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (239)..(239)
<223> n is a, c, g, or t

42623-0044_seq listing

```
<220>
<221> misc_feature
<222> (242)..(242)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (246)..(248)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (254)..(254)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (257)..(257)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (263)..(263)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (265)..(265)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (271)..(273)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (278)..(279)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (281)..(281)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (284)..(285)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (287)..(287)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (287)..(287)
<223> n is a, c, g, or t

<220>
<221> misc_feature
```

42623-0044_seq listing

<222> (290)..(290)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (293)..(293)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (298)..(298)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (302)..(305)
<223> n is a, c, g, or t

<400> 128
gcaaaaacga nncggccaag gatcatatga caagatgtgt atccacctta acttaatgat 60
ttttacccaa aatcattagg ggattcatca ggaaaggcga gcnttancgc cggcatgaat 120
accgatgaca ttctcacctt cgccattaac aaaaatcanc gccacacctg ttgattcgcc 180
tttgatctcg ctgaccggag taanatcccc nttnnnnngac tagtcnacgc gtggccatna 240
anttcnnncg accntangac ccnanticctg nnnttaannc ncgnntnccn tanttgcncc 300
annnn 305

<210> 129
<211> 450
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (5)..(5)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (9)..(9)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (15)..(15)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (19)..(19)
<223> n is a, c, g, or t

<220>
<221> misc_feature

42623-0044_seq listing

```
<222> (23)..(24)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (30)..(30)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (32)..(32)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (37)..(37)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (44)..(44)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (50)..(50)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (52)..(52)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (58)..(58)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (60)..(60)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (73)..(74)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (81)..(81)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (88)..(88)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (97)..(97)
<223> n is a, c, g, or t
```

42623-0044_seq listing

```
<220>
<221> misc_feature
<222> (101)..(102)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (125)..(125)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (132)..(132)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (147)..(147)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (158)..(158)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (184)..(184)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (203)..(203)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (239)..(239)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (243)..(243)
<223> n is a, c, g, or t .

<220>
<221> misc_feature
<222> (265)..(265)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (267)..(267)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (272)..(273)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (281)..(281)
```

42623-0044_seq listing

<223> n is a, c, g, or t
<220>
<221> misc_feature
<222> (290)..(290)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (299)..(299)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (309)..(310)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (314)..(315)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (318)..(319)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (324)..(324)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (328)..(328)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (330)..(330)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (334)..(334)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (336)..(336)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (342)..(342)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (348)..(348)
<223> n is a, c, g, or t

<220>

42623-0044_seq listing

<221> misc_feature
<222> (352)..(352)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (354)..(354)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (358)..(358)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (360)..(360)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (365)..(365)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (373)..(374)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (404)..(404)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (419)..(421)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (428)..(428)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (443)..(444)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (449)..(449)
<223> n is a, c, g, or t

<400> 129		
cacanccgna catcngcgnt atnnctactn anaatgnctg gaantattcn cnactgcntn		60
acacttacac cgnntctcat nccgggtangc accacanaaa nntgaatat gaggcattgaa		120
tggtntgtgg angccgggta acagccntca ttatggngt tggcctcaac acgattttcc		180
tccntttaaa aaactcacgc cgntaccctg taacctcgca ccatactggc agggcagcng		240

42623-0044_seq listing

acngattcgc ctgcgcatga aatgnanaaa cnntgggat ncaccagggn gtaaatctng	300
ccagcgatnn ctgnnttnnt cttnrganan gatncngaaa angggggntg cncncgttn	360
ccggnaaaca tcnntaataa aactgggccc aaagtaaaac gtcnggatat ccaatccann	420
ngtactantc gacgcgtggc canactgnc	450
<210> 130	
<211> 291	
<212> DNA	
<213> Artificial	
<220>	
<223> partial gene with transposon insert	
<220>	
<221> misc_feature	
<222> (1)..(2)	
<223> n is a, c, g, or t	
<220>	
<221> misc_feature	
<222> (8)..(8)	
<223> n is a, c, g, or t	
<220>	
<221> misc_feature	
<222> (12)..(13)	
<223> n is a, c, g, or t	
<220>	
<221> misc_feature	
<222> (86)..(86)	
<223> n is a, c, g, or t	
<220>	
<221> misc_feature	
<222> (259)..(259)	
<223> n is a, c, g, or t	
<220>	
<221> misc_feature	
<222> (264)..(264)	
<223> n is a, c, g, or t	
<220>	
<221> misc_feature	
<222> (267)..(268)	
<223> n is a, c, g, or t	
<220>	
<221> misc_feature	
<222> (290)..(291)	
<223> n is a, c, g, or t	
<400> 130	
nnacgctncg gnncgggatc atatgacaag atgtgtatcc acctaactt aatgatttt	60
accaaaaatca ttagggatt catcanagtt aagtgtgaca gtggagttaa gtatgccaga	120

42623-0044_seq listing

ggtacaaaca gatcatccag agacggcgga gttaagcaaa ccacagtcta cgcatggtcg	180
atctcaacta ttaaccgttt tcgatgccgt gatgcaggag caaaacatta ctcgtgccgc	240
tcatttctg ggaatatcnc cccnctnnngt actagtgcac gcgtggccan n	291

<210> 131
<211> 203
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (3)..(3)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (5)..(5)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (82)..(83)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (101)..(101)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (115)..(115)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (120)..(120)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (127)..(127)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (132)..(132)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (136)..(136)
<223> n is a, c, g, or t

<220>
<221> misc_feature

42623-0044_seq listing

```
<222> (138)..(138)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (145)..(145)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (148)..(148)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (151)..(151)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (154)..(154)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (158)..(158)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (161)..(161)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (165)..(168)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (172)..(172)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (177)..(180)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (183)..(183)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (185)..(186)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (188)..(190)
<223> n is a, c, g, or t
```

42623-0044_seq listing

<220>
<221> misc_feature
<222> (192)..(194)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (196)..(196)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (198)..(198)
<223> n is a, c, g, or t

<400> 131
atncncgacc gggatcatat gacaagatgt gtatccacct taacttaatg atttttacca 60
aaatcattag gggattcatc anngtccagt aattcaatta naggaatcta tgcgnggan 120
aaccgntgg cngctncnq ctaangcnaa naantaancc ncctnnnnct angtatnnnn 180
ggncnntnnn annnncngntt tct 203

<210> 132
<211> 327
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (2)..(3)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (5)..(6)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (12)..(12)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (15)..(15)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (86)..(86)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (93)..(93)
<223> n is a, c, g, or t

42623-0044_seq listing

```
<220>
<221> misc_feature
<222> (95)..(95)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (99)..(99)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (118)..(118)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (122)..(122)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (124)..(126)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (128)..(128)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (132)..(133)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (138)..(138)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (141)..(142)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (145)..(145)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (152)..(152)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (154)..(154)
<223> n is a, c, g, or t

<220>
<221> misc_feature
```

42623-0044_seq listing

```
<222> (157)..(157)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (160)..(160)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (163)..(164)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (166)..(166)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (168)..(168)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (171)..(171)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (173)..(173)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (180)..(180)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (182)..(182)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (184)..(184)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (186)..(187)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (190)..(190)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (193)..(193)
<223> n is a, c, g, or t
```

42623-0044_seq listing

```
<220>
<221> misc_feature
<222> (196)..(196)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (198)..(199)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (201)..(201)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (205)..(205)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (213)..(213)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (215)..(215)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (218)..(218)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (222)..(222)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (239)..(239)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (241)..(242)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (250)..(250)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (253)..(254)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (256)..(256)
```

42623-0044_seq listing

```
<223> n is a, c, g, or t  
<220>  
<221> misc_feature  
<222> (262)..(267)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (271)..(271)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (275)..(275)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (283)..(283)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (287)..(287)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (292)..(293)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (295)..(295)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (299)..(299)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (301)..(301)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (305)..(305)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (311)..(311)  
<223> n is a, c, g, or t  
  
<220>  
<221> misc_feature  
<222> (313)..(313)  
<223> n is a, c, g, or t  
  
<220>
```

42623-0044_seq listing

<221> misc_feature
<222> (315)..(315)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (317)..(317)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (319)..(319)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (322)..(322)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (327)..(327)
<223> n is a, c, g, or t

<400> 132
annccnnncgac cnggntcata tgacaagatg tgtatccacc ttaacttaat gatTTTacc 60
aaaatcatta ggggattcat cagtcnggcc ganCnggcna ttTccaccga ggcttatntc 120
cncnnntntc gnnctagncg nngcntggcc angnttnccn ccnnctnac ncncatn 180
antntnnccn ctntcnccna ntacngtgcc cgngnatncc cntccctccgt cggccccnc 240
nngcttagcn gcnnantggc cnnnnncaa nttagacga tcngccngcc cnntnaacng 300
ngttngccat ntncntncnc ntttatn 327

<210> 133
<211> 484
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (3)..(3)
<223> n is a, c, g, or t

<400> 133
cgnccggatc cgggatcata tgacaagatg tgtatccacc ttaacttaat gatTTTacc 60
aaaatcatta ggggattcat cagaggcaag tccgtatgca aatctcctcg ggcaaaaagc 120
gcccggactt ctgcttcaaa acctgaagcc aacatctgat gaaaacgctg ctcaatgcgt 180
tgcgtggagca gttcacggct cgccggggcg atggcgaact gatgcacctg atacggtaga 240
gcgtctccgt acgtttgcgt cagttccgtt aaagtttac ccgaaatgaa aaaaacttcc 300

42623-0044_seq listing

agtgcgggg	aaagctttg	tggatcattt	ggatgaatcc	ttgctgccgc	aaccggatct	360
acctcctgaa	gttgacgatg	caatgactcc	caaccttgct	ctgccgcctg	ttgctcaatt	420
ctggcccgt	cttccgggtc	tgccgacggt	agcggcgaca	accctccag	aatgccttg	480
aaat						484
<210>	134					
<211>	300					
<212>	DNA					
<213>	Artificial					
<220>						
<223>	partial gene with transposon insert					
<220>						
<221>	misc_feature					
<222>	(2)..(2)					
<223>	n is a, c, g, or t					
<220>						
<221>	misc_feature					
<222>	(135)..(135)					
<223>	n is a, c, g, or t					
<400>	134					
gnccggatccg	gtatatatga	caagatgtgt	atccacctta	acttaatgtat	ttttaccaaa	60
atcattaggg	gattcatcag	gatggggcat	caaccagata	gcttcattgc	ttaagaaaag	120
taataaaaact	atcancgccc	aaaaaaacag	tgcgatgcgt	cgactggcaa	ttcacagcaa	180
cgctgaaatg	tatgcatgga	taaatagcgc	gcagggtgca	agagaactta	acttgccctc	240
tgttatgga	gatgccgcag	aatggaacac	agccgaatta	agaagagaaa	tgtcgactc	300
<210>	135					
<211>	388					
<212>	DNA					
<213>	Artificial					
<220>						
<223>	partial gene with transposon insert					
<220>						
<221>	misc_feature					
<222>	(1)..(3)					
<223>	n is a, c, g, or t					
<220>						
<221>	misc_feature					
<222>	(368)..(368)					
<223>	n is a, c, g, or t					
<400>	135					
nnnaaggcac	gccggacatc	cgtccggga	tcatatgaca	agatgtgtat	ccaccttaac	60
ttaatgattt	ttacaaaaat	cattagggga	ttcatcagac	ccaatattgc	ccccagggcg	120

42623-0044_seq listing

gaataatttgc	ccccgtcttt	ttaatcgct	gatagtgaga	aataacgtct	ttataacgat	180
cgcgagttat	aacgcgccaa	gatgatcaac	ctgaatacgc	tggtaactggg	cagtgcggtc	240
tgggttatcg	tgccacagaa	tttctaattgc	agcgtattgg	gcgagggcgc	gatcggcaat	300
ggcataacgt	tcactttcac	tgcgcgttagg	cataaacgac	agtctgacca	gttcggcatg	360
aatatcancg	cgaatagtagc	tagtcgac				388

<210> 136
<211> 345
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (1)..(4)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (10)..(10)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (319)..(320)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (322)..(324)
<223> n is a, c, g, or t

<400> 136	nnnngaagcn	cgccggacat	cccgatccg	ggatcatatg	acaagatgtg	tatccacctt	60
	aacttaatga	tttttaccaa	aatcattagg	ggattcatca	gtaccacgcc	cctaataattg	120
	ctattgtaat	accaataatt	tgctaaggcc	tctgactttc	tggccgcaat	caatacgacc	180
	tgtttccct	ttaccgcgga	taaccattca	ttatcacggt	ttataaattc	agataaagaa	240
	tccgtactga	gattgataaa	cacgaaatct	tttctaattt	tctccaacga	tagataaatt	300
	aatctgtcga	tatccccnn	cnnngtacta	gtcgacgcgt	ggcca		345

<210> 137
<211> 452
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

42623-0044_seq listing

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (451)..(451)
<223> n is a, c, g, or t

<400> 137
nacgaccgga tccgggatca tatgacaaga tgtgtatcca ccttaactta atgatttta 60
ccaaaatcat taggggattc atcagggcca gaagccgact tcagttctat ttttgctgg 120
cagtggcgaa tgccgtcgtg ttaattgtct gggcgctgta caataagctg cgaaaaaaa 180
aacagcagca tcatgcagcc taccaatata cgccgcaaga atatgcagag agcttagcaa 240
tacctgatga gctctatcag caactacaaa aaagccacag gatgagcgt aacttcacca 300
gccagggca aataaaaatg gttgtttcag aaaaagcgct agtccggca taaacaccca 360
aaacaaagcc cggttcgccc gggctctgca ccgataacac acttaactgt aggcatgcag 420
cgtacgttgg caaagtgccg aacgtacgca nt 452

<210> 138
<211> 350
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (5)..(5)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (70)..(70)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (113)..(113)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (121)..(121)
<223> n is a, c, g, or t

42623-0044_seq listing

```
<220>
<221> misc_feature
<222> (137)..(137)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (140)..(140)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (145)..(145)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (148)..(148)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (163)..(163)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (175)..(175)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (179)..(180)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (194)..(195)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (201)..(201)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (206)..(207)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (212)..(212)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (214)..(214)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (216)..(216)
```

42623-0044_seq listing

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (218)..(218)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (224)..(225)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (228)..(229)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (231)..(233)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (241)..(241)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (245)..(245)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (253)..(253)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (258)..(258)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (261)..(262)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (264)..(264)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (272)..(272)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (276)..(277)

<223> n is a, c, g, or t

<220>

42623-0044_seq listing

```
<221> misc_feature
<222> (282)..(282)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (287)..(287)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (289)..(289)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (291)..(292)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (294)..(294)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (296)..(296)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (299)..(300)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (307)..(308)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (311)..(311)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (314)..(316)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (318)..(319)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (321)..(321)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (323)..(323)
<223> n is a, c, g, or t
```

42623-0044_seq listing

<220>
<221> misc_feature
<222> (327)..(327)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (338)..(338)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (342)..(342)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (347)..(347)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (349)..(350)
<223> n is a, c, g, or t

<400> 138
anacncgtcc gggatcatat gacaagatgt gtatccacct taacttaatg atttttacca 60
aaatcattan gggattcatc agtgtggtgt ccggtaaata tgaaaaaggc atnaaactgc 120
nccacgagcc cactgcnaan gatngngnaa tctccgcccc gcngcctctc tggcnggtnn 180
ccgttctcac cttnnacacc ncccnngct cncntncnct cccnnacnnc nnnttctctc 240
ngcanccac ttnatctncc nncnccctcc cnacgnntcc cnccccncng nncnantgnn 300
ttggctnncc nccnnnannc ncncntcc tggcctcnct cttacncnn 350

<210> 139
<211> 190
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (1)..(2)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (158)..(159)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (163)..(166)
<223> n is a, c, g, or t

42623-0044_seq listing

<220>
<221> misc_feature
<222> (189)..(190)
<223> n is a, c, g, or t

<400> 139
nncgatccgg gatcattgac aagatgtgta tccaccttaa cttaatgatt tttaccaaaa 60
tcatttaggg attcatcagc acttgttgcc acgtggcaaa atattctcgat tcgaccaact 120
catcgccaaa ttttacttgt ttatccgctg gcataatcnnc ccnnnnncgta ctagtcgacg 180
cgtggccann 190

<210> 140
<211> 455
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (3)..(3)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (426)..(427)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (429)..(429)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (432)..(432)
<223> n is a, c, g, or t

<400> 140
cgnccggatc cgggatcata tgacaagatg tgtatccacc ttaacttaat gatTTTacc 60
aaaatcatta ggggattcat cagggatca accagatagc ttcattgctt aagaaaagta 120
ataaaaactat cagcgcccaa aaaaacagtg cgatgcgtcg actggcaatt cacagcaacg 180
ctgaaatgta tgcatggata aatagcgcgc agggtgcaag agaacttaac ttgccttctg 240
tttatggaga tgccgcagaa tggaacacag ccgaattaag aagagaaatg tcgcactcat 300
agaaaaatgc gtcatgagta gtatcggtat tgagagttt ttcagaaagt ttgcggtaa 360
cccttataag ctccataacct ataccagtca ggagtcattt caggatgccat tgtcgcggat 420
atcccnnncnc cncgtactag tcgacgcgtg gccaa 455

42623-0044_seq listing

<210> 141
<211> 224
<212> DNA
<213> Artificial

<220>
<223> partial gene with transposon insert

<220>
<221> misc_feature
<222> (5)..(5)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (7)..(7)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (189)..(189)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (191)..(191)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (193)..(198)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (222)..(222)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (224)..(224)
<223> n is a, c, g, or t

<400> 141
aaaancncgc cggacatccc ggatccggga tcataatgaca aggtatgtta tccacacctaa 60
cttaatgatt ttacaaaaa tcatatgggg attcatcagt attaatcgcc aataatccct 120
cattaaaaga gtttgccag caaattatta ccgtacagga aaaatcacca caacggataa 180
tgcataatcnc ncnnnnnngt actatcgac gcgtggccac anan 224